Year Book

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS
WITH
COTTON MANUFACTURERS

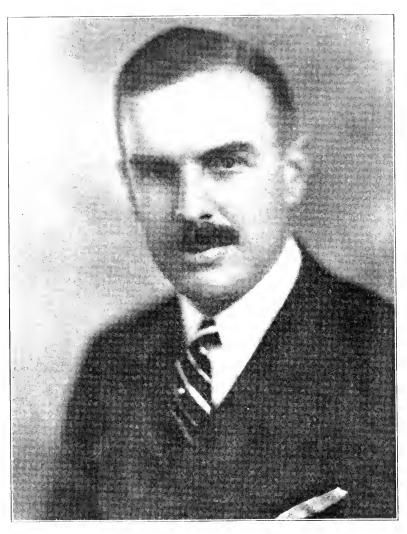
Manual 1926

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WILLIAM B. MACCOLL President, 1925–26

Year Book

of

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS

with

COTTON MANUFACTURERS

Manual 1926



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N3 1926

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Year Book

of

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS

1926



FOREWORD

The Year Book of The National Association of Cotton Manufacturers furnishes in condensed form a reference work where practically all of the information on cotton statistics and technical data of interest to the cotton manufacturer can be readily obtained. Further editions can be made of greater value if the members will notify the Secretary's Office whenever they have any suggestions on the addition of material not included.

WILLIAM B. MacCOLL.

President.

PREFACE

From a small beginning in 1918 the Year Book of The National Association of Cotton Manufacturers has grown with each edition, both in scope and in practical value. It is now recognized as one of the leading authoritative sources of information on cotton production and manufacturing, and is in use in practically all of the cotton manufacturing countries of the world.

In preparing this, the ninth edition of the Year Book, the same general policies of the previous editions have been carried out. The order of arrangement has been revised in accordance with suggestions received from some of our members. The lists of members have been rearranged and condensed into one alphabetical list that gives all of the details. The Technical and Statistical sections precede the list of members instead of following it as in other editions. New material has been added and all the information from previous editions brought up to date.

The editors are indebted to the Statistical and Technical Committees of the Association and the different departments of the government for their help.

RUSSELL T. FISHER, Secretary.

CHARTER

No. 6091

Commonwealth of Massachusetts

Be it known that whereas, Edward W. Thomas, C. J. H. Woodbury, William J. Kent, F. M. Messenger, Harry T. Whitin, Arthur H. Lowe, Albert F. Knight, Alfred M. Goodale, Fred C. McDuffie and George W. Bean have associated themselves with the intention of forming a corporation under the name of the New England Cotton Manufacturers' Association, for the purpose of encouraging scientific investigation and experiment as to the methods of manufacturing cotton; collecting and imparting information relating to this industry; promoting social intercourse among its members; and establishing and maintaining a library of works on textiles in the city of Boston, and have complied with the provisions of the Statutes of this Commonwealth in such case made and provided, as appears from the certificate of the President, Treasurer and Directors of said corporation, duly approved by the Commissioner of Corporations, and recorded in this office.

Now, Therefore, I, William M. Olin, Secretary of the Commonwealth of Massachusetts, do hereby certify that said Edward W. Thomas, C. J. H. Woodbury, William J. Kent, F. M. Messenger, Harry T. Whitin, Arthur H. Lowe, Albert F. Knight, Alfred M. Goodale, Fred C. McDuffie and George W. Bean, their associates and successors, are legally organized and established as and are hereby made an existing corporation under the name of the

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION,

with the powers, rights and privileges, and subject to the limitations, duties and restrictions which by law appertain thereto.

Seal of the Commonwealth of the seal of the Commonwealth of Massachusetts hereunto Massachusetts affixed this first day of December, in the year of our Lord one thousand eight hundred and ninety-four.

WILLIAM M. OLIN, Secretary of the Commonwealth.

Commonwealth of Massachusetts

(Acts of 1895, Chap. 163.)

An Act to authorize the New England Cotton Manufacturers'
Association to hold its Meetings without the Commonwealth.

Be it enacted, etc., as follows:

Section 1. The New England Cotton Manufacturers' Association is hereby authorized to hold its meetings in any state or territory of the United States and in the District of Columbia; provided, however, that its annual meeting shall be held in this Commonwealth at least once in five years.

Section 2. This act shall take effect upon its passage. [Approved March 23, 1895.]

No. 252

Commonwealth of Massachusetts

Be it known that whereas

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION

a corporation organized under the laws of this Commonwealth and subject to the provisions of chapter one hundred and twenty-five of the Revised Laws has complied with the provisions of chapter one hundred and nine of the Revised Laws, as appears from the certified copy of the order of the Commissioner of Corporations, authorizing said corporation to change its name and adopt the name of

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS, and the certificate of the Vice President and Acting President, Treasurer and Directors of said corporation duly filed in this office pursuant to the provisions of section ten of the aforesaid chapter one hundred and nine of the Revised Laws.

Now, therefore, I, William M. Olin, Secretary of the Commonwealth of Massachusetts, do hereby certify, that the name which said corporation shall bear is

The National Association of Cotton Manufacturers, which shall hereafter be its legal name.

Seal of the Commonwealth of the Great Seal of the Commonwealth of Massachusetts hereMassachusetts unto affixed this twenty-fifth day of June in the year of our Lord one thousand nine hundred and six.

WM. M. OLIN, Secretary of the Commonwealth.

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS

Successor to

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION

FOUNDED 1854 Incorporated December 1, 1894

CONSTITUTION AND BY-LAWS

(Revised, November 1, 1923)

I

NAME

The name is The National Association of Cotton Manufacturers.

П

QUALIFICATIONS OF MEMBERS

Active Members

1. Any person who is actively engaged as President, Treasurer, Agent, Superintendent, or Manager in the manufacture, printing, or finishing of cottons shall be eligible for active membership.

Associate Members

2. Any person engaged in the manufacture of cotton or cotton fabrics, or the manufacture of textile machinery, or industries kindred to the cotton manufacture, shall be eligible for associate membership.

3. This class of membership shall be entitled to attend the meetings of the Association and participate in its proceedings without the right to vote except by permission from the Board of Government or by vote of the Association

ment or by vote of the Association.

Sustaining Members

4. Any firm or corporation actively engaged in manufacturing, bleaching, printing, or finishing of cotton, or any firm or corporation actively engaged in a business contributory to the cotton manufacturing industry, shall be eligible for sustaining membership.

5. The executive head of a firm or corporation, so elected, or any duly authorized representative thereof, shall represent its sustain-

ing membership in the Association.

6. Sustaining members shall enjoy the full privilege of active membership and in addition shall be entitled to such direct service as the Association may be able to render by its technical and statistical or other departments under such regulations as the Board of Government may prescribe.

Honorary Members

7. Honorary members shall be recommended by the Board of Government and may be elected at any duly called meeting of the Association. They shall be entitled to attend the meetings of the Association and participate in its proceedings without the right to vote. No person actively engaged in cotton manufacture shall be eligible to such membership.

Life Members

8. Any active or associate member by the single payment of a sum equal to ten times the amount of his annual dues, shall be exempt from all future payment of dues and shall become a life member and shall have all the privileges to which his class of membership is entitled.

9. The minimum dues for a life member shall be one hundred

dollars.

10. All moneys thus paid shall be invested as a permanent fund by the Treasurer, acting under the direction of the Board of Government, of which the income only shall be subject to appropriation for current expenses.

Technical Members

11. Any person over twenty-five years of age (except those designated under Article II, Sections 1 and 2) engaged in the manufacture, bleaching, printing, finishing, or distribution of cotton products; or in any industry contributory to cotton manufacture, including the manufacture and installation of cotton machinery; or who is employed in a school or college giving instruction in the manufacture of cotton goods and accessory industries; or by a technical laboratory or textile engineering organization, shall be eligible to technical membership.

Junior Technical Members

12. Any junior or senior student of a school or college giving instruction in textile manufacture, or any employee, under twenty-five years of age and not a textile school graduate, engaged in the supervision of cotton manufacture, bleaching, printing, or finishing, shall be eligible as a junior technical member. A student junior technical member upon graduation, and an employee junior technical member upon attaining his twenty-fifth birthday, shall automatically become a technical member of the Association and

shall be subject to the same conditions and receive the same priv-

ileges as other technical members.

13. It shall be the duty of all members of the Association to make returns to the Secretary of such statistics as may be called for by him, under the direction of any committee duly appointed for the collection of statistics, when not incompatible with private interests.

Ш

OFFICERS

1. The officers shall be a President, two Vice Presidents, fifteen Directors, a Treasurer, and a Secretary.

2. The President, and in his absence a Vice President, shall preside at all meetings of the Association and of the Board of

Government.

- 3. The Treasurer, or a deputy whom he may appoint with the approval of the Board of Government, shall collect all moneys due the Association and disburse the same in accordance with the action of the Board of Government. He shall keep an accurate account of all receipts and expenditures and present a full account of the finances of the Association at the annual meeting in each year, or whenever called for by the Board of Government. He shall act as trustee of the permanent funds of the Association.
- 4. The Secretary shall attend all meetings of the Association and the Board of Government and keep accurate records of their doings. In the absence of the Secretary at any meeting, a Secretary pro tem may be appointed by the presiding officer, who shall be sworn to do all things, while in office, required of the Secretary.
- 5. Any officer who shall unreasonably absent himself from three consecutive meetings of the Board of Government of which he is a member, or shall otherwise neglect or refuse to perform the duties of his office, may be removed from office at any regular meeting of the Board of Government by a vote of a majority of the members present and voting thereon, a notice of such proposed action to be sent to him by mail at least one week previous to the meeting.

IV

BOARD OF GOVERNMENT

1. The President, Vice Presidents, and Directors, in addition to the Presidents who have held office during six years previous to the annual meeting of any year, shall constitute a BOARD OF GOVERNMENT and have under its care and direction all matters pertaining to the management of the Association.

2. Meetings of the Board may be called by the President at such time and place as he may deem expedient, giving each member a written or printed notice of the same at least five days before the

day of the meeting.

3. At the first meeting of the Board after the Annual Meeting, a Treasurer, a Secretary, and an Auditor of Accounts for the year

ensuing shall be elected. The Board shall also fix the amount of

the compensation of the Secretary at this meeting.

4. All vacancies in the Board, occasioned by death, resignation, or removal, shall be filled by the Board; and the persons so elected shall hold their offices until the next Annual Meeting, except as provided in Article III, Section 5.

5. At the first meeting of the Board, or as soon after as practical, the President, with its approval, shall appoint from its membership an Executive Committee of seven, which shall exercise authority in such matters as may be delegated to it by the Board. The

President shall be Chairman of this Committee.

6. The President shall appoint from the general membership of the Association such other committees as in his judgment can most effectively serve its needs and interests. All committees so appointed shall report their conclusions, whenever the particular matter dealt with involves the policy of the Association or the expenditure of money, to the Board of Government.

7. The Auditor shall examine the accounts of the Treasurer

annually, and report at the annual meeting his findings.

8. No committee or member thereof shall make public any matter in connection with the work of the Association without the approval of the Board of Government.

9. Seven members shall constitute a quorum for the transaction

of business.

V

MEETINGS

1. The Annual Meeting of the Association shall be held the last Wednesday in October, or at such other time and at such hour and place as the Board of Covernment shall appoint

place as the Board of Government shall appoint.

2. The Board of Government shall arrange for a Semi-Annual Meeting of the Association to be held in April or at such other time and at such hour and place as the Board of Government shall appoint.

3. Special meetings shall be called by the Board of Government whenever it deems it expedient or upon written application of

any fifty members to the Secretary.

4. All meetings of the members of the Association shall be in pursuance of a written or printed notice, addressed to each member, with the name of the President, or Secretary, attached thereto, and deposited in the Post Office ten days at least before the day of meeting, specifying the time and place of meeting; and at all such meetings twenty-five members shall constitute a quorum for the transaction of business.

VI

Elections

1. At each Annual Meeting there shall be chosen by ballot, a President, a first Vice President, a second Vice President, and five Directors; the President and Vice Presidents to serve one year and

the five Directors for terms of three years unless sooner removed, as hereinbefore provided.

2. No Director, elected as such, who has to his credit six years of consecutive service, shall be eligible for re-election until one year after the completion of such service.

3. The officers shall hold their respective offices until their

successors shall be chosen and accept their positions.

VII

Election of Members

All nominations for membership of any class in the Association shall be made in writing and presented to the Board of Government for action thereon. Upon favorable action by the Board of Government the nominee shall become a member upon the payment, within thirty days, of the initiation fee and dues of his class.

VIII

Entrance Fees, Dues and Assessments

1. The admission fee for active members shall be ten dollars and the payment of annual dues not exceeding ten dollars.

2. The admission fee for associate members shall be twenty-five dollars and the annual assessment shall be double the sum

annually voted for active members.

- 3. The annual assessment for sustaining members shall be at the rate of twenty-five cents for each one thousand dollars of yearly payroll paid by such firm or corporation during the previous year in all its departments actively engaged in the manufacture of cotton goods or in contributory industries; provided that no annual assessment shall be less than fifty or more than five hundred dollars. There shall be no initiation fee for sustaining members.
- 4. Honorary members shall not be subject to payment of admission fees or assessments.
- 5. The admission fee for technical members shall be ten dollars and the annual dues five dollars.
- 6. Junior technical members shall pay no admission fee and the annual dues shall be three dollars.
- 7. Dues in the active, associate, technical, and junior technical membership classes shall be paid in advance on the first day of January of each year. The annual assessment for sustaining members is payable in advance upon the anniversary of such membership.
- 8. Any member failing to pay two successive assessments shall cease to be a member at the end of six months from the date when such second assessment shall become due.

IX

RESIGNATIONS

Any member may withdraw from the Association upon payment of all arrearages, first giving notice of his intention to do so, in writing, to the Secretary, and the Board of Government may accept such resignation.

X

Suspension or Expulsion

Any member may be suspended or expelled for cause at any duly called meeting of the Board of Government by a two-thirds vote of the members present, provided he has been notified of the charges against him and an opportunity given him to appear in his defense.

XI

NATIONAL COUNCIL OF AMERICAN COTTON MANUFACTURERS

- 1. The Board of Government may co-operate with the American Cotton Manufacturers' Association in matters of national scope and importance through the National Council of American Cotton Manufacturers (composed of representatives of The American Cotton Manufacturers' Association and an equal number from this Association) in such manner and to such an extent as it may from time to time determine to be for the best interests of the cotton manufacturing industry, and may delegate to the Council authority to act for this Association on such matters of national importance as may be mutually agreed upon by the Boards of Government of the constituent associations.
- 2. The representatives of this Association in the National Council shall be the seven following: The President of the Association (exofficio), the last three living past presidents (exofficiis), and three others elected by the Board of Government from the sustaining membership of the Association. At the first election under this article, the Board of Government shall elect representatives to serve one, two, and three years, respectively. Thereafter one representative shall be elected each year to serve a term of three years.
- 3. The Board of Government, from the moneys received as dues from sustaining members, may contribute to the National Council for the support of its work at such times and in such manner as may be deemed necessary or desirable by a majority of the Board of Government.

XII

AMENDMENTS

Amendments to the Constitution and By-Laws may be made at any duly called meeting of the Association by a two-thirds vote; provided, notice of such proposed amendment be given in writing at a previous meeting, and also notice be given to each member by the Secretary, of the pendency of such amendment, ten days at least before any such meeting.

BOARD OF GOVERNMENT 1926

			P	RESI	DEN	F	
WILLIAM	В.						Pawtucket, R. I.
			VICE	PRI	ESIDE	ENTS	
RUSSELL JOHN A.	H. SW	LEON A EETSEI	ARD R				Boston, Mass. Boston, Mass.
			Г	HREC	TOR	s	
			Term	ex n	ires	1926	3
S. HAROI	D	GREEN	E				Boston, Mass.
ALBERT	G.	MASON					NEW BEDFORD, MASS
W. S. PE	PPE	CRELL					PROVIDENCE, R. I.
DEXTER	STI	EVENS					Esmond, R. I.
ANDREW	S.	WEBB					BOSTON, MASS. NEW BEDFORD, MASS PROVIDENCE, R. I. ESMOND, R. I. PHILADELPHIA, PA.
			Term	ern	ires	192	7
W IDVIN	rG .	RIII I AI	3 D	cac p		10%	ROSTON MASS
IOHN I	RH	BULLLAI RTON	· (L)	•	•		NEW REDEORD MASS
IOHN E.	LAY	WRENC	E	•	•	•	BOSTON MASS
IAMES S	ENC	LAIR.	1.7	•	•		FALL RIVER MASS
E. KENT	SN	HFT					Boston, Mass. New Bedford, Mass. Boston, Mass. Fall River, Mass. Whitinsville, Mass.
~ T DD	0.110	27777027	Term	exp	nres	192	o N. D. 7.5
C. F. BR	UUC	HTON	•			٠	NEW BEDFORD, MASS BOSTON, MASS. WESTBROOK, ME. COHOES, N. Y. NEW BEDFORD, MASS
A. E. CO.	PR		•	٠	•	•	BOSTON, MASS.
PHILIP I	JAN Dia	A .		•	•		WESTBROOK, ME.
JOHN A.	PE	KIMINS) NT	I	٠		Vonces, N. 1.
JAMES O.	. 11	omrac) ₁ , ,	JR.	•	٠	NEW DEDFORD, MASS
		FORME	RPRE	ESIDE	ENTS	EX-	OFFICIIS
RUSSELL.	\mathbf{R}	LOWE					FITCHBURG MASS
ROBERT	A M	ORY	٠	•	•	•	BOSTON MASS.
MORGAN	BU	TLER					FITCHBURG, MASS. BOSTON, MASS. BOSTON, MASS.
					SURE		
W. IRVIN	IG	BULLAI	RD				Boston, Mass.
			Q	ECRI	ETAR	Y	
RUSSELL	Т	FISHER					Boston, Mass.
							LUGIUN, DIAGO.

STATISTICAL — TECHNICAL AND MEMBERSHIP

1926







STATISTICAL

FOREWORD

The Statistical Committee, in presenting this section of the Year Book, has endeavored not only to bring the statistics of The National Association of Cotton Manufacturers as they have appeared in previous years up to date, but has added further statistics in its endeavor to present to the members as complete a picture of the industry as can be given.

In 1925 the industry again passed through a most trying year, during which methods of carrying on our business were steadily being adjusted to meet new conditions not only in running our mills but in merchandising our goods.

In presenting the following statistics, the Committee hope that the members will find them useful and helpful in solving their problems during the coming year.

P. D. HOWE, Chairman Statistical Committee F. S. BLANCHARD ALSTON H. GARSIDE ARNOLD W. HUNNEWELL W. S. PEPPERELL CHARLES B. NICHOLS ALBERT GREENE DUNCAN

Acknowledgment of Co-operation

The preparation of the Statistical Section of this Year Book has been made possible by the generous co-operation of many governmental authorities in this country and abroad, and many firms and individuals in the cotton trade throughout the world. Special acknowledgment is due the Bureau of the Census and Bureau of Foreign and Domestic Commerce, especially, Textile Division, of the United States Department of Commerce; Weather Bureau, Bureau of Agricultural Economics, and Bureau of Entomology of the United States Department of Agriculture: Bureau of Labor Statistics and Women's Bureau of the United States Department of Labor; Egyptian Ministry of Agriculture; Egyptian Ministry of Finance; Indian Department of Statistics: British Board of Trade; New York Cotton Exchange; New Orleans Cotton Exchange; Liverpool Cotton Association; Manchester Cotton Association, Ltd.; Alexandria General Produce Association: New York Daily News Record: Journal of Commerce: Textile World; New Bedford Standard; Textile Mercury; Manchester Guardian: Comtelburo Ltd.'s Annual Cotton Hand Book; Shepperson's Cotton Facts: Merchants National Bank of Boston; International Federation of Master Cotton Spinners' and Manufacturers' Association: Fall River Cotton Manufacturers' Association; Japan Cotton Spinners' Association; Lockwood, Greene & Co., Inc., Boston, Mass.; Sanford & Kelley, New Bedford, Mass.; G. M. Haffards & Company, Fall River, Mass.; Frederick B. Macy & Company, New Bedford, Mass.: C. H. Pope & Company, New York, N. Y.; J. M. Prendergast & Co., Boston: The Viscose Co., New York; and Silk Association of America.

American Cotton in 1925

[Quantities in bales of lint cotton.¹]

	Exports	Domestic	Spindles Active,	Spindle- Hours Operated	Per Cent of Single- shift	Range (Cotton	
		Consumption	Thousands	in Millions	Capacity	Low	High
January .	1,076,075	589,725	33,181	8,493	96.4	23.45	24.30
February .	811,838	550,132	33,277	7,868	100.0	24.25	25.35
March .	734,697	582,674	33,225	8,599	99.6	24.80	-26.08
April	472,555	597,104	33,413	8,518	100.0	24.30	24.95
May	330,967	531,471	33,148	7,930	93.6	22.20	-24.00
June	217,786	493,765	32,310	7,690	89.0	23.35	-24.85
July	202,468	483,898	31,761	7,298	84.3	-23.80	25.75
August .	312,825	448,665	31,270	6,954	80.5	22.60	-25.90
September	752,324	483,266	31,552	7,102	83.8	22.20	24.75
October .	1,421,482	543,679	32,425	7,962	89.4	19.40	23.70
November	1,206,786	543,098	32,892	7,834	96.0	19.90	-21.65
December .	984,061	575,271	33,001	7,841	99.5	19.15	21.10
	8,523,864	6,422,748	_	-	_	19.15	26.05
Year.						3	
1924	6,792,160	5,536,646	$31,104^{2}$	$6,696^2$	78.3^{2}	22.15	35.30
1923	5,281,926	6,512,978	34,6812	$8,688^{2}$	98.9^{2}	22.45	37.65
1922	6,114,313	6,089,159	$33,036^2$	$7,723^2$	93.5^{2}	16.45	26.80

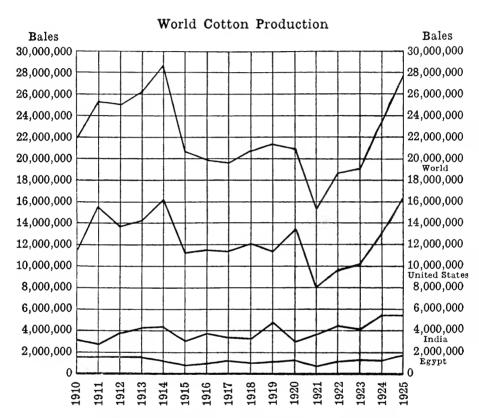
 $^{^{\}rm 1}$ Except exports, which include linters.

² Monthly average.

World Cotton Production and Consumption

[In bales of 478 pounds lint] Source: United States Department of Commerce

						World		Consumption		Per	Per Cent of World Total consumed by—	ORLD BY —
		YEAR				Production (Bales)	World (Bales)	European (Bales)	United States (Bales)	Europe	United	Other Countries
1909–10	•					16,988,000	19,164,000	10,295,000	4,530,000	54	£2	55
1910-11	•					18,856,000	19,888,000	11,040,000	4,408,000	56	Si	61 61
1911-12						22,247,000	21,534,000	11,998,000	5,026,000	56	÷1	23
1912-13				,		21,550,000	22,055,000	12,158,000	5,575,000	55	12.51	50
1913-14						22,612,000	22,198,000	12,029,000	5,465,000	54	25	21
1914 - 15	•					24,861,000	20,670,000	10,606,000	5,485,000	51	56	25
1915-16						18,461,000	21,978,000	10,878,000	6,270,000	50	25 S2	şj
1916 - 17						18,924,000	21,108,000	9,044,000	6,653,000	43	33	25
1917-18						18,141,000	18,515,000	6,621,000	6,435,000	36	35	53
1918-19						18,765,000	16,704,000	5,962,000	5,831,000	36	35	53
1919-20						20,220,000	19,300,000	7,700,000	6,485,000	40	34	26
1920 - 21			-			19,665,000	16,905,000	6,735,000	4,905,000	40	53	31
1921 - 22	•	-				15,334,000	19,990,000	7,916,000	5,910,000	39	30	31
1922 - 23						17,959,000	21,325,000	8,129,000	000,999,9	38	31	31
1923 - 24					-	19,005,000	19,982,000	8,393,000	5,681,000	45	S.	30
1924 - 25						23,285,000	22,640,000	9,689,000	6,191,000	43	C1	30



The above chart is based on the table on the following page.

World Production of Cotton

[In bales of 478 pounds net]

Source: United States Department of Agriculture

	YEAR	AR		United	India 1	Russia	Egypt	China 2	Brazil	Mexico	Peru	All Other Countries	Total
016				11,609,000	3.254,000	1.006.000	1,555,000	3,467,0003	297,0003	200,000	88,000³	439,000	21,915,000
			 	15,693,000	2,730,000	969,000	1,530,000	3,437,0003	$300,000^3$	160,000	96,0003	441,000	25,356,000
1912				13,703,000	3,702,000	946,000	1,554,000	3,931,0003	$348,000^{3}$	240,000	112,000	507,000	25,043,000
113				14,156,000	4,239,000	1,026,000	1,588,000	$4,000,000^3$	$397,000^{3}$	205,000	133,000	515,000	26,259,000
114				16,135,000	4,359,000	1,270,000	1,337,000	4,500,000	$387,000^{3}$	108,000	129,000	462,000	28,687,000
115				11,192,000	3,128,000	1,512,000	989,000	3,000,0003	282,000	95,000	113,000	378,000	20,689,000
91				11,450,000	3,759,000	1,199,000	1,048,000	1;534,000	281,000	103,000	127,000	344,000	19.845,000
117				11,302,000	3,393,000	634,000	1,304,000	2,092,000	345,000	135,000	125,000	345,000	19,675,000
81				12,041,000	3,328,000	161,000	000,666	3,053,000	339,000	203,000	142,000	347,000	20,613,000
611				11,421,000	4,853,000	81,000	1,155,000	2,599,000	506,000	000,661	155,000	415,000	21,384,000
07				13,440,000	3,013,000	58,000	1,251,000	1,883,000	370,000	188,000	164,000	508,000	20,875,000
151				7,954,000	3,748,000	43,000	902,000	1,517,000	505,000	147,000	157,000	357,000	15,330,000
55				9,762,000	4,348,000	55,000	1,170,000	2,048,000	553,000	178,000	137,000	454,000	18,705,000
53				10,139,671	4,247,000	321,000	1,213,000	1,992,000	576,000	136,000	203,000	655,329	19,500,000
924				13,627,936	5,069,000	397,000	1,276,000	2,176,000	605,000	298,000	206,000	469,000	23,900,000
9254				16,085,905	5,064,000	853,000	1,629,000	2,114.000	-5	215,000	2	9	27,800,000

1 Total Indian production.

² Estimates which include production in the most important provinces where the commercial crop is grown.

Unofficial.

Advance estimates subject to correction.

⁵ Not available.

Source of Supply of Cotton according to Length of Staple

[Bales of 500 pounds; gross weight]

Source: British Cotton Growing Committee and United States Bureau of Markets

GROWTHS	Kind		Where Grown	Length of Staple (Inches)	Approximate Pre-war Supply (Bales)
	Sea Island		Islands, South Carolina	$1\frac{1}{2} - 2\frac{1}{4}$	8,000
Ï	Sea Island		West Indies	$1\frac{1}{2} - 2\frac{1}{4}$	4,000
, =	Sea Island		Islands, Florida and Georgia	$1^{\frac{1}{2}-1^{\frac{3}{4}}}$	70,000
II	Sea Island		West Indies	$1\frac{1}{2} - 1\frac{3}{4}$	2,000
	Egyptian		Egypt	18-13	550,000
~	Egyptian		Egypt	1 -13	700,000
	Egyptian		Sudan	$1 - 1\frac{3}{8}$	20,000
III	American		Mississippi Delta, etc.	18-13	200,000
	African		Nyasaland, Uganda, and East and South Africa	$1\frac{1}{8} - 1\frac{1}{4}$	40,000
	Peruvian	٠	Peru	$1 - 1\frac{1}{2}$	125,000
~	American ¹		United States	5-1-2	15,000,000
	Mexican		Mexico	8-11	150,000
	Brazilian		Brazil	2-1-2-	300,000
	Russian		Russia	$1 - 1\frac{1}{8}$	500,000
]V	West African		West Africa	$1 - 1^{\frac{1}{8}}$	15,000
	Levant		Levant	3-11 8-11	100,000
	Indian		India	. I -116	400,000
	Chinese and Korean		China and Chosen (Korea)	1	250,000
~_	Indian		India	t-(00	4,500,000
A	Bussian		Russia	E-100	750,000
	Chinese		China		1,800,000
	Approximate world's pre-war supply	e-war			25,484,000

¹ Including American-Egyptian cotton.

Length¹ of Staple of the World's Cotton by Varieties

[In inches]
Source: United States Department of Agriculture

VARIETY	Minimum	Average	Maximum	VARIETY	Minimum	Аургаде	Maximutu
United States:				India:			
Sea Island	13	ı	01 8	Cambodia	10 30	ı	1.8
Meade	10,70	ı	<u>~</u>	Karunganni	1~ 30	ı	-
American-Egyptian	12	1		Broach	mix	1	1
Upland long staple	1.8	ı	· el#	Oomras	(c)	ı	t- 7
Upland short staple	ಬ¦4	1	$1_{\overline{16}}^{1}$	Dholleras	i id;s6	1	i r⊢lxò
Mevico	1	-		Kumptas	t- 20 G	ı	1
	ı	7	l	Western and Northern	স, কা	1	(x)+
Fornt.				Tinnevellys	ਲ'ਚ	1	kr _i uti
Solvels Solvels	6		10	Bengals	es se	ı	io'io
Passer on a manage	3 1	ľ	T 23	Sind-Punjab	en xo	ı	מילמו
Diowit and uppers	i∞ T	ı	so -	Brazil:			
China:				Serido or Moc6	E 33	ı	13
Native	ı	ro, so	\$~(x0	Verdão	E.X.	ı	F 6'-3
American	1	ı	1	Inteiro	11	1	· 1
B.18819				Quebradinho	1 5	ı	E 3
Native	e l	ı	8	Maeaco or Garga	13	ı	ı
Amenican	× 1	. 1	4 7	Cleveland			
	l	l	\$	Russel Big Boll	7		60
Peru:				Express	116	ì	116
Full rough (aspero)	ı		ı	Webber			
Semi-rough (semi-aspero) .	ı	$1\frac{3}{1\cdot 6}$	1	Herbacco	r- x	ı	1
Egipto (suave)	$1\frac{1}{16}$	1	13	Durango	$1\frac{1}{16}$	ı	
Tanguis	ı	1 5	122	Sea Island	1	11	· 1
Mitafifi	1	$1\frac{1}{4}$	ı	Campo Brito	ı	$1\frac{8}{16}$	ı

¹ Figures are only approximate. It must be noted that opinions frequently differ as to length of certain varieties.

Approximate Dates of Cotton Planting and Picking by Countries

Source: United States Department of Agriculture

		Planting			Picking	
Country	Beginning	Principal Months	End	Begin- ning	Principal Months	End
United States 1 Mexico:	March 15	_	May 25	July 1	_	Dec. 31
Laguna District	_	~	March	July	_	Dec.
Lower California	March	_	July	Sept.	_	Feb.
Egypt	Feb.	-	May	Aug.	_	Dec.
China	May	-		Oct.	_	_
Russia	-	Mareh-April	_	Aug.	_	Oct.
India	_	March-Dec.	_	_	OctApril	_
Brazil:						
North	Dee.	-	April	Aug.	_	Dec.
South	Sept.	-	Nov.	March	_	May
Peru ²	_	OctDec.	-	-	May-Sept.	_

Usual Dates to begin Planting and Picking in the United States

	STA	TE			Planting	Pieking
Alabama .				Mar.	21 to Apr. 11	Aug. 21 to Sept. 1
Arkansas .				Apr.	11 to Apr. 21	Sept. 1 to Sept. 11
Georgia .				Mar.	21 to Apr. 11	Aug. 21 to Sept. 1
Louisiana .				Mar.	21 to Apr. 11	Aug. 21 to Sept. 1
Mississippi .				Mar.	21 to Apr. 30	Aug. 21 to Sept. 1
North Carolina				Apr.	11 to Apr. 21	Sept. 1 to Sept. 11
Oklahoma .				Apr.	1 to Apr. 21	Aug. 28 to Sept. 5
South Carolina				Apr.	1 to Apr. 11	Aug. 21 to Sept. 1
Tennessee .				Apr.	11 to Apr. 21	Sept. 1 to Sept. 11
Texas				1 -	1 to Apr. 21	July 1 to Sept. 1

Average Gross Weights of Cotton Bales

Variety												Pounds
Egyptian .												733
Chinese .												460
East Indian												400
African .												402
West Indian												424
Brazilian .		,										370
Peruvian .												356
American, Sea	Islan	.d										374
American, Upla												498
North Caro												483
South Carol	lina									,		480
Georgia												478
Alabama												493
Mississippi												497
Louisiana						,						490
Texas .	·	Ċ										516
Arkansas								•				505
Tennessee	•		•						•		•	507
2 0111100000	•	•			•	•			•	•	•	00.

About 95 per cent of the crop is picked from August 1 to November 30.
 Planting and picking are carried on all the year. Some varieties yield several crops before they are replanted.

Estimated Cotton Production of Minor Producing Areas

[In bales of 478 pounds net]

Source: Bureau of Foreign and Domestic Commerce

									1922-23	1923-24	1924-25
Guatemala									646	825	2,100
Salvador .									_	1,000	10,000
Colombia .			·		Ċ				5,000	5,000	8,000
Venezuela .									10,000	10,000	15.000
Ecuador .									8,000	10,000	11,500
Paraguay .				·					4,000	16,000	12,200
Argentina .	•								25,000	47,000	69,000
Haiti		Ċ							15,000	15,000	16,000
Other West In	dies								5,180	6,200	4.000
Greece .		•		·					13,000	10,000	11,000
Malta .	•	•						Ċ	161	98	480
Cyprus .	•	•			•		•	•	1,276	1,674	2,660
Jugoslavia	•								858	669	418
Bulgaria .	•	•	•		•	•	•	•	3,600	1,800	2,960
Italy			•						4,600	5,000	4,520
Japan .						•	•		4,000	4,000	3,000
Korea .	•	•		٠	•		•		103,000	111,000	121,000
French Indo-C	Trino			•					10,000	10,000	10,000
Siam			•	•					3.000	5,000	2.900
Afghanistan									5,000	5,000	5,000
					•				10,000	40,000	60,000
		٠			•				50,000	60,000	110,000
Turkey . Dutch East In	.tion				•		٠		10,000	8,000	8,000
New Hebrides				•	•			•	3.000	1,830	2,000
New Hebrides Australia .									10,000	25,000	8,790
		•					•		200	25,000 79	80
Fiji, etc	•										
Uganda .	•	•	•	٠	٠	•		•	75,000	94,000	140,000
Tanganyika	•			٠				•	6,004	8,400	15,700
Nigeria .		٠			٠	•	٠		13,000	18,000	24,000
British South				٠					3,138	5,020	7,300
Rhodesia .	٠	٠							1,273	1,000	1,650
Sudan .		٠			٠				21,000	41,000	45,000
French Africa		٠							1,945	2,445	3,000
Belgian Congo									4,600	4,600	16,000
. 0							,		4,600	4,600	5,000
Nyasaland									4,601	5,440	2,400
Mozambique	٠								1,000	12,000	5,000
Algeria .									272	795	2,238
Ivory Coast	•								100	100	100
Eritrea .									692	1,381	2,760
Italian Somali	land								1,192	1,757	2,30
Gold Coast									50	837	800
Angola .									2,000	2,000	2,000
Kenya .									460	1,600	1,600
Total									444,175	605,150	777,45

Cotton Acreage and Yield per Acre of Egypt, India and the United States

United States Bureau of the Census and Department of Agriculture

YEAR			Egyp	т	India		UNITED STATES		
	1 65	К		Acres	Pounds	Acres	Pounds	Acres	Pounds
1902				1,324,000	437	16,581,046	90	27,175,000	187
1903				1,383,000	466	18,025,000	79	27,052,000	174
1904				1,491,000	420	19,918,000	77	31,215,000	206
1905				1,626,000	363	20,401,000	83	27,110,000	187
1906				1,564,000	440	22,488,000	87	31,374,000	202
1907				1,664,000	431	21,630,000	58	29,660,000	179
1908				1,703,000	393	19,999,000	74	32,444,000	195
1909				1,619,000	309	20,545,000	92	32,044,000	154
1910				1,664,000	453	22,596,000	68	32,403,000	171
1911				1,776,000	412	21,615,000	61	36,045,000	208
1912				1,787,000	417	22,028,000	84	34,283,000	191
1913				1,789,000	425	25,020,000	81	37,089,000	182
1914				1,823,000	353	24,595,000	85	36,832,000	209
1915				1,231,000	387	17,746,000	84	31,412,000	170
1916				1,718,000	295	21,745,000	83	34,985,000	157
1917				1,741,000	359	25,188,000	64	33,841,000	160
1918				1,366,000	338	21,038,000	76	36,008,000	160
1919				1,633,000	399	23,353,000	99	33,566,000	161
1920				1,897,000	336	21,341,000	68	35,878,000	178
1921				1,341,000	329	18,451,000	97	30,509,000	125
1922				1,868,000	360	21,077,000	98	33,036,000	142
1923				1,856,000	354	23,088,000	88	41,360,000	130
1924				1,856,000	329	24,833,000	98	40,115,000	157
1925				1,998,000 1	3901	26,305,000 1	851	$45,945,000^{1}$	165

¹ Advance estimates.

Acreage planted to Egyptian Cotton, by Varieties

[Expressed in feddans 1] Source: Egyptian Ministry of Agriculture

_	1920	1921	1922	1923	1924	1925
Sakellaridis	1,270,481	995,479	1,357,197	1,162,036	872,624	1,128,946
Ashmouni (Uppers)	283,906	170,514	276,193	287,171	² 796,362	270,842
Mitafifi	44,068	6,771	8,178	5,599	_	_
Nubari	37,320	8,645	11,084	9,862	_	-
Afifi Assil	30,051	5,839	7,878	7,246	22,271	8,384
Abassi	4,293	1,267	2,274	1,772	3_	3_
Joanovich	2,087	300	335	4,082	3_	3_
Pilion	_	-	3_	3_	49,960	72,799
Various	169,870	103,063	136,704	110,332	46,626	443,411
Total	1,827,870	1,291,878	1.799,843	1.588,100	1,787,843	1.924.382

3 Included in "Various."

 ¹ feddan = 1.038 acres.
 2 Including Zagoura, which has previously been included in "Various."

Acreage of Cotton planted, Acreage abandoned, and Acreage harvested in the United States

Source: United States Department of Agriculture

			Y	EAR				Acreage planted ¹	Acreage abandoned	Acreage harvested
1912								34,766,000	483,000	34,283,000
1913								37,458,000	369,000	37,089,000
1914								37,406,000	574,000	36,832,000
1915								32,107,000	695,000	31,412,000
1916								36,052,000	1,067,000	34,985,000
1917							.	34,925,000	1,084,000	33,841,000
1918								37,207,000	1,199,000	36,008,000
1919								35,133,000	1,567,000	33,566,000
1920								37,043,000	1,165,000	35,878,000
1921	٠	•		·				31,678,000	1,169,000	30,509,000
1922	•		•	•				34,016,000	980,000	33,036,000
1923	•		•	•				38,701,000	867,000	37,123,000
1924	•							41,390,000	1,275,000	41,360,000
1924 1925^{2}					,			16,448,000	2,137,000	45,945,000

¹ Acreage planted is computed as of June 25 each year.

Acreage of Cotton harvested in the United States

Source: United States Department of Agriculture

	Thousands of Acres													
STATE	1918	1919	1920	1921	1922	1923	1924	1925 1						
Total	36,008	33,566	35,878	30,509	33,036	37,123	41,360	45,945						
Alabama	2,570	2,791	2,858	2,235	2,771	3,079	3,055	3,545						
Arizona .	95	107	230	90	101	127	180	157						
Arkansas	2,991	2,725	2,980	2,382	2,799	3,026	3,094	3,790						
California 2	173	185	275	140	202	233	317	322						
Florida	167	103	100	65	118	147	80	106						
Georgia	5,341	5,220	4,900	4,172	3,418	3,421	3,046	3,588						
Louisiana	1,683	1,527	1,470	1,168	1,140	1,405	1,616	1,854						
Mississippi	3,138	2,848	2,950	2,628	3,014	3,170	2,981	3,481						
Missouri	148	125	136	103	198	355	493	487						
New Mexico .	_	_	_	_	_	60	101	101						
North Carolina	1,600	1,490	1,587	1,403	1,625	1,679	2,005	2,039						
Oklahoma .	2,998	2,424	2,749	2,206	2,915	3,197	3,861	5,183						
South Carolina	3,001	2,835	2,964	2,571	1,912	1,965	2,404	2,746						
Tennessee .	902	758	840	634	985	1,172	996	1,183						
Texas	11,233	10,476	11,898	10,745	11,874	14,150	17,175	17,369						
Virginia	44	42	42	34	55	7.1	102	96						
All other	12	10	24	18	44	73	41	48						

¹ Preliminary estimate.

² 1925 figures are subject to revision.

² Lower California (150,000 acres in 1925; 140,000 in 1924; 148,000 in 1923; 135,000 in 1922; 85,000 in 1921; 125,000 in 1920; 100,000 in 1919; and 88,000 in 1918) included in California figures, but excluded from United States totals.

Acreage and Production of Cotton in Egypt

Source: Egyptian Ministry of Finance

	YEAR		Acreage in Feddans ¹	Acreage in Acres	Crop in Kantars Gross Weight ²	Crop in Equivalent 500-Pound Bales	Yield in Kantars per Feddan	Yield in Pounds per Acre
1911			1,711,241	1,776,000	7,386,000	1,463,000	4.32	412
1912			1,721,817	1,787,000	7,499,000	1,492,000	4.35	417
1913			1,723,094	1,789,000	7,664,000	1,522,000	4.44	425
1914			1,755,270	1,823,000	6,451,000	1,286,000	3.67	353
1915			1,186,004	1,231,000	4,775,000	952,000	4.03	387
1916			1,655,512	1,718,000	5,060,000	1,012,000	3.06	295
1917			1,677,310	1,741,000	6,293,000	1,249,000	3.75	359
1918			1,315,572	1,366,000	4,821,000	955,000	3.66	338
1919			1,573,662	1,633,000	5,572,000	1,248,000	3.54	399
1920			1,827,870	1,897,000	6,036,000	1,231,000	3.30	336
1921			1,291,878	1,341,000	4,353,000	862,000	3.37	329
1922			1,799,843	1,868,000	6,713,000	1,119.000	3.73	360
1923			1,588,100	1,648,000	5,844,000	1,160,000	3.68	351
1924			1,787,843	1,855,781	6,379,862	1,321,972	3.56	340
1925^{3}			$1,924,382^3$	$1,988,000^{3}$	$7,860,000^{3}$	$1,629,000^{3}$	4.08^{3}	350_3

^{1 1} feddan = 1.038 acres.

Acreage and Crops of American-Egyptian Cotton

[Crops in 500-pound bales gross]

		 	YEA	R	 	 		Acreage planted	Crop
1912								520	375
913								3,500	2,135
1914								12,000	6,187
915								2,330	1,095
916								5,477	3,331
917								33,000	15,966
918								80,000	36,187
919								90,000	40,437
920								240,000	91,965
921							. !	80,000	37,094
922								77,000	32,824
923								40,000	22,426
924								8,000	4,319
925								40,000	20,053

² 1 kantar = 99.049 pounds.

³ Preliminary estimates.

Dates of Earliest Killing Frosts in Autumn in the Cotton Belt of the United States during the Past Six Years

Source: United States Weather Bureau

	1920	1921	1922	1923	1924	1925
North Carolina: Charlotte Rockingham Raleigh Goldsboro .	Oct. 30 Oct. 30 Nov. 13 Oct. 30	Nov. 13 Oct. 14 Nov. 13 Oct. 14 ¹	Nov. 23 Nov. 11 Nov. 22 Nov. 11 ¹	Nov. 9 Nov. 2 ¹ Nov. 2 Nov. 9 ¹	Nov. 19 Oct. 24 Nov. 18 Nov. 18 ¹	Oct. 29 Oct. 11 ¹ Oct. 29 Oct. 11 ¹
South Carolina: Charleston Columbia .	Dec. 29 Nov. 13	None Dec. 30	Nov. 29 Nov. 22	Nov. 10 Nov. 9	Nov. 30 Nov. 19	Nov. 24 Nov. 24
Georgia: Atlanta Augusta Savannah . Columbus . Rome	Nov. 13 Nov. 14 Dec. 25 Oct. 30 Oct. 30	Nov. 11 Nov. 13 None Nov. 13 Nov. 11	Nov. 21 Nov. 22 Nov. 29 Nov. 29 Nov. 10	Nov. 9 Nov. 10 Nov. 10 Nov. 10 Nov. 8	Nov. 25 Nov. 19 Nov. 36 Nov. 26 Nov. 19	Oct. 29 Nov. 24 Nov. 24 Nov. 17 Oct. 29
Alabama: Eufaula Mobile Montgomery .	Nov. 17 Nov. 17 Nov. 17	Nov. 13 None Dec. 5	Nov. 29 None Nov. 29	Nov. 10 Jan. 6 ² Dec. 7	Nov. 26 Nov. 26 Nov. 26	Nov. 17 Dec. 23 Nov. 23
Mississippi: Vicksburg . Greenville .	Nov. 13 Nov. 12	Dec. 18 Nov. 3	Dec. 19 Nov. 26	Nov. 30 Nov. 7	Nov. 25 Oct. 24	Nov. 23 Oct. 20
Louisiana: New Orleans Shreveport .	None Nov. 13	None Nov. 10	None Nov. 21	Jan. 62 Dec. 6	Dec. 26 Nov. 25	Dec. 28 Nov. 23
Texas: Galveston . Palestine . San Antonio . Fort Worth .	None Nov. 16 Nov. 16 Nov. 12	None Dec. 18 Dec. 9 Nov. 19	None Dec. 19 None Dec. 10	Jan. 7 ² Dec. 14 Jan. 1 ² Dec. 14	Dec. 19 Dec. 10 Dec. 19 Dec. 9	Dec. 23 Nov. 23 Nov. 16 Oct. 28
Arkansas: Little Rock Fort Smith	Nov. 12 Nov. 3	Nov. 12 Nov. 10	Nov. 26 Nov. 26	Nov. 30 Nov. 29	Nov. 25 Nov. 24	Oct. 30 Oct. 28
Tennessee: Memphis . Nashville . Chattanooga .	Nov. 12 Oct. 29 Nov. 15	Nov. 12 Nov. 3 Nov. 11	Nov. 16 Nov. 21 Nov. 21	Oct. 31 Nov. 1 Nov. 9	Nov. 29 Oct. 24 Nov. 20	Oct. 29 Oct. 20 Oct. 29
Oklahoma: Ardmore Oklahoma . Mangum .	Nov. 12 Nov. 11 Nov. 2	Nov. 10 Nov. 10 Nov. 10	Nov. 20 Nov. 14 Nov. 13	Nov. 30 ¹ Oct. 31 Nov. 6 ¹	Nov. 24	Oct. 25 Oct. 25 No record

¹ First date with temperature of 32° or below.

Dates of Earliest Killing Frosts in Autumn, and Latest Killing Frosts in Spring, from Beginning of Record kept by United States Weather Bureau to December 31, 1925

	Years recorded	Earliest Date in Autumn	Average Date in Autumn	Latest Date in Spring	Average Date in Spring
Virginia:					
Newport News	 26	Oct. 3	Nov. 6	April 26	March 28
Norfolk	 53	Oct. 11	Nov. 17	April 26	March 25
Richmond .	 28	Oet. 12	Oct. 31	April 26	April 7
North Carolina:		0			
Greensboro .	 22	Oct. 11	Oet. 30	April 26	April 9
Raleigh	 39	Oct. 8	Nov. 5	April 26	March 29
Wilmington .	 55 47	Oct. 16 Oct. 8	Nov. 13	May 1	March 23
Charlotte . Monroe	 29	Oct. 8 Oct. 2	Nov. 5 Oct. 19	April 26 May 10	March 28 April 14
	 	000. 2	000, 10	112119 20	iiijiii ii
South Carolina: Charleston .	55	Nov. 8	Dec. 10	April 2	Feb. 20
Columbia .	 46	Oct. 30	Nov. 18	April 17	March 18
Greenwood .	 28	Oct. 11	Nov. 8	April 17	March 25
Spartanburg .	 35	Sept. 24	Nov. 1	April 17	March 30
Greenville .	 30	Oct. 10	Nov. 2	April 24	April 3
Georgia:					
Macon	26	Oct. 11	Nov. 7	April 18	March 23
Athens .	 $\overline{32}$	Oct. 11	Nov. 1	April 21	April 2
Augusta	52	Oct. 21	Nov. 10	April 17	March 22
Sayannah .	 53	Oct. 25	Nov. 24	April 13	Feb. 26
Rome	 34	Oct. 11	Oct. 27	April 24	April 9
Columbus .	 29	Oct. 11	Nov. 6	April 26	March 22
Gainesville .	 29	Oct. 11	Oct. 27	April 24	April 9
Newnan	 29	Oct. 11	Nov. 5	April 26	April 5
Thomasville .	 31	Oct. 21	Nov. 15	April 26	March 14
Florida:					
Gainesville .	 28	Nov. 10	Dec. 3	April 2	Feb. 26
Jacksonville .	 70	Nov. 12	Dec. 6	April 10	Feb. 16
Lake City .	 33	Oct. 25	Nov. 28	April 26	March 10
Pensacola .	 46	Oct. 27	Dec. 7	April 6	Feb. 17
Tallahassee .	 35	Nov. 4	Dec. 1	April 10	March 4
Tampa	 36	Nov. 21	Jan. 3	April 7	Jan. 26
Alabama:					
Anniston .	 21	Oct. 11	Nov. 1	April 25	March 24
Opelika	 31	Oct. 21	Nov. 11	April 17	March 20
Montgomery .	 54	Oct. 21	Nov. 11	April 5	March 10
Selma	 28	Oct. 13	Nov. 10	April 26	March 16
Eufaula	 34	Oct. 21	Nov. 12	April 26	March 16
Mobile	 55	Oct. 31	Dec. 5	April 6	Feb. 17
Decatur	 30	Oct. 11	Nov. 2	April 26	March 28
Birmingham .	 31	Oct. 21	Nov. 9	April 17	March 16
Tuscaloosa . Thomasville .	 $\frac{37}{28}$	Oct. 21 Oct. 20	Nov. 6 Nov. 10	April 25 April 26	March 27 March 17
	 	555. 20	1.0.1.20	p-11 20	
Mississippi: Yazoo City .	31	Oct. 13	Nov. 2	April 25	March 20
Vicksburg .	 55	Oct. 20	Nov. 12	April 6	March 4
Meridian .	 36	Oct. 8	Nov. 5	April 25	March 18
ATACAICIUII .	 31	Oct. 20	Nov. 14	April 25	March 14

Dates of Earliest Killing Frosts in Autumn and Latest Killing Frosts in Spring, and Average Dates, etc. — (Concluded)

	Years recorded	Earliest Date in Autumn	Average Date in Autumn	Latest Date in Spring	Average Date in Spring
Mississippi (Continued): Greenville Greenwood Columbus	35 26 31	Oct. 10 Oct. 13 Oct. 11	Nov. 6 Oct. 31 Oct. 31	April 26 April 26 April 26	March 19 March 25 March 27
Louisiana: Baton Rouge New Orleans Monroe Natchez (see Mississippi)	39 53 32	Oct. 14 Nov. 11 Oct. 10	Nov. 18 Dec. 16 Nov. 10	April 5 March 27 April 9	Feb. 20 Jan. 28 March 1
Shreveport Vicksburg (see Mississippi)	53	Oct. 20	Nov. 10	April 9	March (
Texas: Houston Galveston Corpus Christi Luling Cuero San Antonio El Paso Abilene Amarillo Fort Worth Lampasas Taylor Temple Austin Waco Gainesville Dallas Waxahachie Corsicana Palestine Nacogdoches Greenville Paris	35 54 39 34 33 40 38 40 31 31 33 31 35 35 36 27 43 25 43 24 33	Oct. 25 Nov. 16 Nov. 29 Oct. 27 Oct. 30 Oct. 27 Oct. 19 Sept. 22 Oct. 29 Oct. 30 Oct. 22 Oct. 9 Oct. 28 Oct. 22 Oct. 9 Oct. 22 Oct. 9 Oct. 22 Oct. 9 Oct. 22 Oct. 9 Oct. 22 Oct. 9	Dec. 1 Dec. 26 Dec. 28 Nov. 21 Nov. 23 Nov. 28 Nov. 15 Nov. 10 Oct. 29 Nov. 12 Nov. 22 Nov. 22 Nov. 12 Nov. 12 Nov. 13 Nov. 13 Nov. 12 Nov. 12 Nov. 13 Nov. 12 Nov. 12 Nov. 17	March 26 March 1 March 1 March 1 April 9 April 5 April 5 April 26 April 23 April 23 April 9 May 2 April 9 April 5 April 25 April 25 April 26 April 26 April 26 April 26 April 26 April 27	Feb. 19 Jan. 19 Jan. 19 Jan. 29 March 19 March 19 March 11 March 11 March 11 March 11 March 11 March 12 March 13 March 14
Arkansas: Fort Smith Little Rock Pine Bluff Texarkana	44 46 32 33	Oct. 9 Oct. 22 Oct. 11 Oct. 9	Nov. 5 Nov. 13 Nov. 4 Nov. 9	April 17 April 26 April 25 April 17	March 2 March 1 March 2 March 2
Tennessee: Memphis Nashville Chattanooga Decatur Knoxyille	54 55 47 29 55	Oct. 2 Oct. 8 Sept. 30 Oct. 2 Oct. 1	Nov. 3 Oct. 27 Oct. 26 Oct. 23 Oct. 28	April 25 April 24 May 14 May 14 April 26	March 2 April April April 1 April 1
Oklahoma: Muskogee Oklahoma	24 35	Oct. 10 Oct. 7	Nov. 3 Nov. 2	April 21 April 30	March 2
Missouri: St. Louis	53	Sept. 30	Oct. 27	May 22	April

Forecasts of American Cotton Crops by United States Department of Agriculture compared with Actual Yield and Production Forecasts of Yield per Acre

;	-	Forecastr	Porecasts of Yield per Acre (Pounds)	тев Аств	(Pounds)		Actual	Percenta	GE OF VAR	IATION OF 1	PERCENTAGE OF VARIATION OF FORECASTS FROM ACPUAL YIELD	вком Асге	AL YIELD
YEAR	May 25	June 25	July 25	Arg. 25	Sept. 25	Dec. Est.	Pounds)	May 25	June 25	July 25	Апд 25	Sept. 25	Dec. Est.
1925 1	-	147.7	140.0	144.1	143.5	162.3	1	ı	1	ı	1	1	ł
1924		143.8	141.3	153.5	149.2	156.8	1	ŀ	1	1	ı		i
1923	1	142.6	143.9	131.8	137.7	128	130.6	ı	6+	+10	7	1:1	21
1955	1	151	157	145	139	141.6	141.6	1	+	7	71	21 	7
1991	1	152.2	148	127	118	126.9	124.5	ı	£ ;	+19	-11	17	71
1920	1	155.9	170.4	174.0	165.0	170.8	178.4	ı	-13	+	::: 	<i>x</i>	7
6161	171.3	_	156.8	159.8	158.0	158.2	161.5	9+	~;i	??	ī	21	71
8161		_	177.3	145.2	154.1	155.9	169.6	1	+ 31	+13		ī	21
1917	162.5		166.9	17.1.6	168.3	155.7	169.7	+	7	7	-	+	
1916	2.12		173.4	158.5	156.3	156.3	156.6	+16	-55	+11	+	I	ı
5161	. 1	_	1	1	168.1	172.5	170.3	. 1	1	1	ı	ī	7
1914.2	1	1	1	I	-	207.9	209.2	ı	1	1	ı	ı	-
1913 2	1	1	ı	1	1	183.4	182.0	1	ı	1	-	ı	+
										_			

⁴ 1925 reports were dated June 25, July 16, August 16, September 16 and December 8.

² First forecast of yield per acre issued as of Sept. 25, 1915.

[500-pound gross bales, exclusive of linters] Forecasts of Total Crop

		Fo	FORECASTS OF CROPS	ROPS		Actual	AMOUNT OF	anount of Variation of Forecasts from Actual Production	Foregasts fro	M ACTUAL PRO	DUCTION
YEAR	Jame 25	July 25	Aug. 25	Sept. 25	Dec. Est.	Production	June 25	July 25	Aug. 25	Sept. 25	Dec. Est.
1925 1	11,339,000	13.588,000	13,990,000	13,931,000	15,603,000	16,103,586	-1,764,586	-2,515,586	-2,013,586	-2,172,586	985,005-
1861	12,144,000	11.934.000	12,956,000	12,596,000	13,153,000	13,639,3.9	-1,195,399	-1,705,399	-683,399	-1,043,399	148 (399
1953	11.412.000	11,516,000	10.788.000	11,015,000	10.081.000	10,139,671	41,272,329	+1,376,329	+648,329 +	+875,329	129,85-
0.05	11,065,000	11,449,000	10,575,000	10,135,000	9.964,000	9,762,069	+1,302,931	+1,686,931	+812,931	+372,931	+191,931
1921	8,433,000	8,203,000	7.037,000	6,537,000	8,340,000	7,953,641	+479,359	十249,359	-916,641	-1,416,641	628,388+
1920	11,450,000	12,519,000	12.783.000	12.123.000	12.987,000	13,439,603	-1,989,693	-920,603	- 656,603	-1,316,603	-452,603
1919	10,986,000	11.016,000	11,230,000	10,696,000	11,030,000	11,420,763	-434,763	-1,104,763	-190,763	-721,763	-390,763
200	15.325.000	13.619.000	11,137,000	000,818,11	11,700,000	12,040,532	+3,281,168	- S07'S1G'1+	-903,532	- 222,532	-340,532
1917	11,633,000	11.949.000	12,499,000	12,047,000	000'646'01	11,302,376	+330,625	+046,625	+1,196,625	+744,625	-353,375
19161	11,266,000	12.916.000	11.800.000	11.637,000	11.511.000	11,449,930	+2,816,070	+1,166,070	+350,070	+187,070	+61,070
1915	ī			10,950,000	11.161.000	11, 191, 820	1	1		-241,830 -	-30,820
191.13	ı	ı	1	1	15,966,000	16,134,930	ı	ı	ı	ı	-168,930
19133	1	-	ı	1	13,677,000	14,156,486	1	ı	1	week	17.1, 156

^{1 1925} reports were dated June 25, July 16, August 16, September 16, and December 8.
2 March, 1926, giming report.
3 March, 1926, giming report.
4 First monthly forcast made by Department of Agriculture was that of Sept. 25, 1915.

Computation of Cotton Crop Condition

The following statement from the Bureau of Agricultural Economics outlines the method used to obtain the government cotton crop condition estimate:

The condition figures published by this Bureau are based upon a normal condition. A normal condition is such a condition as would be expected at the date to which the report relates if conditions are favorable to the crop; that is to say, assuming that good seed had been planted under favorable conditions and that the crop had not suffered material injury from drought, storms, insect pests, plant diseases, or other unfavorable influences. Normal is not an ideal condition, but represents something rather close to the average of good years. The bearing of condition is upon final yield per acre rather than upon total production, because condition does not involve the question of acreage.

The yield per acre to be expected from a condition of 100 per cent or normal for any month is determined each year by a study of the relation of condition in that month to final yield in previous years. The reported per cent of a normal June 25 condition would, of course, indicate a corresponding per cent of the established normal yield per acre for June 25. This promised yield per acre, being multiplied by the number of acres, gives an indication of total production. All such forecasts are based upon the assumption that conditions affecting the crop developing after the date of report will be average, and that the final yield will prove greater or less than the forecast according as such future influences prove more or less favorable than in an average year.

A condition in June of 71 would not necessarily indicate the same production as the same figure for the following month because conditions average higher in June than in July for most crops, and distinctly so for cotton. The comparison each month is with normal conditions for that month. While the conditions of 71 per cent normal in June might be 80 per cent of the June average condition, the same per cent of July normal might be 90 per cent of July average condition and indicate a correspondingly higher yield.

Condition of American Cotton Crops on May 25

Source: United States Department of Agriculture

STATE	1918	1919	1920	1921	1922	1923	1924	1925
Virginia	. 89	89	71	77	91	79	62	72
North Carolina .	. 84	85	70	65	84	77	71	74
South Carolina .	. 80	78	68	58	67	64	68	71
Georgia	. 78	81	55	63	71	65	68	78
Florida	. 75	75	62	60	85	87	77	88
Alabama	. 78	78	58	57	80	70	70	80
Mississippi	. 86	73	65	60	75	70	69	84
Louisiana	. 85	74	72	57	70	68	70	84
Texas	. 82	76	60	71	61	77	66	-70
Arkansas	. 85	68	61	70	76	66	58	85
Tennessee	. 90	64	60	69	79	70	54	-82
Missouri	. 79	70	64	75	90	54	52	77
Oklahoma	. 86	65	70	74	67	63	58	86
California	. 91	91	86	75	84	93	91	98
Arizona	. 90		80	84	81	92	90	90
New Mexico		-	-	-	73	90	89	85
All other	. –	-	-	-	_	-	-	90
United States	. 82.3	75.6	62.4	66.0	69.6	71.0	65.6	76.0

Condition of American Cotton Crops on June 25

State	1918	1919	1920	1921	1922	1923	1924	1925
Virginia	. 85	82	73	70	85	90	61	83
North Carolina .	. 91	83	74	67	76	80	73	77
South Carolina .	. 83	78	74	65	60	64	69	70
Georgia	. 80	72	63	64	58	56	75	76
Florida	. 79	57	63	70	75	65	79	84
Alabama	. 84	67	67	59	68	68	70	79
Mississippi	. 90	63	69	67	76	67	74	88
Louisiana	. 87	61	77	64	69	69	78	81
Texas	. 84	69	71	72	72	77	70	64
Arkansas	. 91	64	72	78	80	66	68	87
Tennessee	. 94	64	69	74	83	67	67	85
Missouri	. 93	60	72	80	92	62	60	90
Oklahoma	. 90	69	77	75	76	64	72	88
California	. 93	99	83	77	91	91	90	95
Arizona	. 96	93	80	SS	85	92	92	92
New Mexico		_	_	_	_	80	80	88
All other		_	_	_	_	_	72	94
United States	. 85.8	70.0	70.7	69.2	71.2	69.9	71.2	75.9

Condition of American Cotton Crops on July 25

Source: United States Department of Agriculture

STATE	1918	1919	1920	1921	1922	1923	1924	1925
Virginia	. 75	80	74	82	80	88	54	76
North Carolina .	. 87	76	77	75	78	82	56	77
South Carolina .	. 80	71	77	62	60	64	59	71
Georgia	. 77	67	68	59	54	48	76	74
Florida	. 70	50	64	60	65	52	76	82
Alabama	. 78	64	67	58	70	66	70	78
Mississippi	. 81	63	71	68	74	65	70	83
Louisiana	. 65	52	71	59	70	68	66	76
Texas	. 61	67	74	62	72	71	69	56
Arkansas	. 77	63	78	76	81	68	70	85
Tennessee	. 86	67	76	75	85	69	68	79
Missouri	. 93	67	81	80	90	70	65	80
Oklahoma	. 75	75	85	68	75	63	72	76
California	. 95	100	85	83	95	88	90	92
Arizona	. 95	93	85	89	86	91	94	94
New Mexico		i –		88	85	85	83	82
All other	. –	-	-	-	_	-	70	79
United States	. 73.6	67.1	74.1	64.7	70.8	67.2	68.5	70.4

¹ Condition on July 16. Change due to the inauguration of semi-monthly reports.

Condition of American Cotton Crops on August 25

State	1918	1919	1920	1921	1922	1923	1924	1925
Virginia	. 84	67	81	63	68	93	62	79
North Carolina .	. 77	70	79	62	65	71	59	75
South Carolina .	. 67	67	71	50	46	57	59	53
Georgia	. 66	55	58	41	44	42	70	61
Florida	. 60	38	57	59	60	30	72	78
Alabama	. 66	55	58	53	60	52	70	70
Mississippi	. 67	61	60	57	60	48	65	77
Louisiana	. 53	47	55	45	60	53	50	65
Texas	. 43	61	67	42	59	55	61	46
Arkansas	. 52	65	75	63	63	57	71	79
Tennessee	. 58	69	75	74	65	64	72	82
Missouri	. 60	75	83	78	70	67	70	81
Oklahoma	. 33	71	84	48	53	46	75	74
California	. 92	98	80	83	91	88	90	93
Arizona	. 96	90	86	85	87	90	85	92
New Mexico	. -	_	_	_	85	88	92	77
All other	. -	-	_	-	_	-	75	92
United States	. 55.7	61.4	67.5	49.3	57.0	54.1	64.9	62.0

¹ Condition on August 16.

Condition of American Cotton Crops on September 25

Source: United States Department of Agriculture

STATE		1918	1919	1920	1921	1922	1923	1924	1925
Virginia .		84	64	72	53	63	83	60	64
North Carolina		74	61	68	54	59	64	52	62
South Carolina		65	61	62	40	38	53	47	43
Georgia		62	49	51	33	37	31	59	-53
Florida		50	35	50	50	55	20	71	71
Alabama .		63	45	49	46	55	42	59	64
Mississippi .		64	52	50	48	54	37	57	73
Louisiana .		52	38	47	41	53	45	48	70
Texas		44	52	61	38	52	56	52	42
Arkansas .		50	60	65	53	57	50	59	64
Tennessee .		59	64	66	62	56	47	60	60
Missouri .		61	58	75	70	70	64	63	64
Oklahoma .		33	72	70	38	42	49	64	55
California .		90	95	78	73	80	84	77	90
Arizona		93	92	90	81	80	90	72	92
New Mexico .		_	_	_	_	_	84	85	85
All other .		-	_	-	-	-	-	77	75
United State	es.	54.4	54.4	59.1	42.2	50.0	49.5	55.4	53.3

¹ Condition on September 16.

Condition of American Cotton Crop on Reporting Dates in 1925

State			$^{\rm May}_{25}$	June 25	July 16	August 1	August 16	Septem- ber 1	Septem- ber 16
Virginia			72	83	76	75	79	68	64
North Carolina		.	74	77	77	75	75	68	62
South Carolina			71	70	71	62	53	46	43
Georgia			78	76	74	66	61	55	53
Florida		.	88	84	82	80	78	78	71
Alabama			80	79	78	74	70	65	64
Mississippi .			84	88	83	81	77	74	73
Louisiana		.	84	81	76	69	65	67	70
Texas			70	64	56	49	46	43	42
Arkansas			85	87	85	87	79	69	64
Tennessee .			82	85	79	82	82	66	60
Missouri			77	90	80	84	81	70	64
Oklahoma .		.	86	88	76	72	74	61	55
California .			98	95	92	90	93	90	90
Arizona		.	90	92	94	$^{-92}$	92	92	92
New Mexico .			85	88	82	75	77	88	85
All other			90	94	79	89	92	76	75
United States	· .		76.6	75.9	70.4	65.6	62.0	56.2	53.8

United States Cotton Production, per Acre, by States

[In pounds]

Source: United States Department of Agriculture

STATE	1917	1918	1919	1920	1921	1922	1923	1924	1925
United States	160	160	161.5	178	124.5	141.3	130.6	157.4	165.5
Alabama .	125	149	122	111	124	142	91	154	186
Arizona	285	280	270	224	242	222	292	285	286
Arkansas .	170	158	155	195	161	173	98	169	199
California .	242	-270	268	266	-258	188	285	284	370
Florida	100	85	74	86	80	102	40	130	172
Georgia	173	190	152	138	90	100	82	157	158
Louisiana .	210	167	93	-126	114	144	125	145	227
Mississippi .	155	187	160	145	148	157	91	176	264
Missouri .	190	200	257	275	325	360	171	185	235
New Mexico .	-	_	_	_	_	-	230	266	289
North Carolina	194	-268	266	275	264	250	290	196	238
Oklahoma .	165	92	195	230	104	103	98	187	150
South Carolina	208	-250	240	260	140	123	187	160	155
Tennessee .	130	175	195	185	228	190	92	170	191
Texas	135	115	140	174	98	130	147	138	117
Virginia .	180	270	255	-230	230	230	325	180	242
All other .	-	-	_	-	_	_	226	164	246

¹ Data for 1925 are preliminary estimates.

Average Grades of Recent Cotton Crops

Henry G. Hester, Secretary of the New Orleans Cotton Exchange, computes the average grades of recent American cotton crops to have been as follows:

1916–17, middling to strict middling.

1917-18, middling.

1918-19, barely middling.

1919-20, strict low middling.

1920-21, barely middling.

1921-22, middling.

1922-23, middling.

1923-24, strict low middling to middling.

1924-25, middling.

United States Production of Cotton and Linters

Source: United States Bureau of the Census

	Cotton, EX-		Lin	TEI S	Cotton, 1 Lint	
Growth Year	Running Bales, counting Round as Half Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales. counting Round as Ilalf Bales	Equivalent 500-Pound Bales Gross Weight
1900	10,102,102	10,123,027	143,500	143,500	10,245,602	10,266,527
1901	9,582,520	9,509,745	166,026	166,026	9,748,546	9,675,771
1902	10,588,250	10,630,945	196,223	196,223	10,784,473	10,827,168
1903	9,819,969	9,851,129	195,752	194,486	10,015,721	10,045,615
1904	13,451,337	13,438,012	245,973	241,942	13,697,310	13,679,955
1905	10,495,105	10,575,017	230,497	229,539	10,725,602	10,804,556
1906	12,983,201	13,273,809	322,064	321,689	13,305,265	13,595,498
1907	11,057,822	11,107,179	268,060	268,282	11,325,882	11,375,461
1908	13,086,005	13,241,799	346,126	345,507	13,432,131	13,587,300
1909	10,072,731	10,004,949	313,478	310,433	10,386,209	10,315,383
1910	11,568,334	11,608,616	397,628	397,072	11,965,962	12,005,688
1911	15,553,073	15,692,701	556,276	557,575	16,109,349	16,250,276
1912	13,488,539	13,703,421	602,324	609,594	14,090,863	14,313,01
1913	13,982,811	14,156,486	631,153	638,881	14,613,964	14,795,36
1914	15,905,840	16,134,930	832,401	856,900	16,738,241	16,991,830
1915	11,068,173	11,191,820	944,640	931,141	12,012,813	12,122,96
1916	11,363,915	11,449,930	1,300,163	1,330,714	12,664,078	12,780,64
1917	11,248,242	11,302,375	1,096,422	1,125,719	12,344,664	12,428,09
1918	11,906,480	12,040,532	910,236	929,516	12,816,716	12,970,043
1919	11,325,532	11,420,763	595,093	607,969	11,920,625	12,028,73
1920	13,270,970	13,439,603	429,005	440,313	13,699,975	13,879,910
1921	7,977,778	7,953,641	382,375	397,752	8,360,153	8,351,393
1922	9,729,306	9,762,069	590,537	607,779	10,319,843	10,369,843
1923	10,170,694	10,139,671	639,540	668,600	10,810,234	10,808,27
1924	13,639,399	13,627,936	857,962	897,375	14,497,361	14,525,31

Summary of Commercial Crops of American Cotton

[In running bales, including linters]
Source: New Orleans Cotton Exchange

1920-21 1921-22 1922-23 1923-24 1924-25 Port receipts . 7,088,492 6,402,985 5,935,645 6,591,008 9,557,735 Overland to mills . 1,465,385 1,647,570 1,267,819 880,814 1,294,406 Southern consumption . 3,096,504 3,942,416 4,487,535 3,985,328 4,380,118 Total movement 11,650,381 11,992,971 11,690,999 11,817,150 15,232,259 Less taken by southern mills from ports 339,838 526,753 533,903 273,065 408,193 Total crops 11,377,316 [11,653,133] 11,282,806 11,290,397 14,698,356

United States Commercial Crops of Cotton

Source: New Orleans Cotton Exchange

State	1920-21	1921-22	1922-23	1923-24	1924-25
Alabama	. 607,000	733,000	981,000	710,000	1,042,000
Arkansas	. 1,113,000	995,000	1,118,000	725,000	1,163,000
Florida	. 18,000	13,000	30,000	15,000	21,000
Georgia	. 850,000	1,629,000	1,035,000	790,000	$\pm 1,135,000$
Louisiana	. 362,000	337,000	368,000	394,000	515,000
Oklahoma	. 1,190,000	709,000	664,000	705,000	1,610,000
Mississippi	. 856,000	1,033,000	1,108,000	758,000	1,220,000
NorthCarolina, etc. ¹	. 839,000	1,053,000	1,068,000	1,262,000	972,000
South Carolina	. 1,046,000	1,546,000	799,000	920,000	903,000
Tennessee, etc. ²	. 514,000	565,000	675,000	609,000	878,000
Texas	. 3,982,000	3,040,000	3,437,000	4,402,000	5,239,000
Total crop .	. 11,377,000	11,653,000	11,283,000	11,290,000	14,698,000

¹ Including Virginia and Kentucky.

United States Production of Cotton, Exclusive of Linters

[Running bales, counting round as half bales]

State	1920	1921	1922	1923	1924	1925 1
Alabama	670,330	587,669	819,870	599,140	985,653	1,355,767
Arizona	105,191	42,926	44,132	77,704	109,950	115,359
Arkansas .	1,182,010	788,047	1,010,520	643,643	1,086,814	1,593,029
California .	77,892	34,809	28,473	55,313	79,938	120,915
Florida	19,443	12,202	27,428	13,628	19,756	40,194
Georgia	1,447,159	822,621	735,874	612,812	1,030,202	1,192,082
Louisiana	389,569	284,330	345,407	373,812	498,396	911,540
Mississippi .	900,371	816,961	985,787	622,617	1,116,350	1,974,335
Missouri .	76,328	68,145	139,881	124,676	192,981	293,128
New Mexico .	· -			28,333	55,858	64,704
North Carolina	949,484	803,620	879,294	1,053,402	860,147	1,146,569
Oklahoma .	1,302,610	477,777	637,003	665,904	1,506,077	1,680,051
South Carolina	1,652,177	786,039	517,464	793,817	837,815	928,589
Tennessee	314,811	297,555	385,860	235,344	355,919	513,020
Texas	4,148,399	2,129,660	3,125,758	4,212,248	4,850,956	4,097,009
Virginia	21,898	16,680	27,011	51,982	40,180	53,856
All other states	13,298	8,737	19,544	6,319	12,417	23,439
Total .	13,270,970	7,977,778	9,729,306	10,170,594	13,639,399	16,103,586

¹ March, 1926, preliminary report.

² Including Missouri, California, Arizona, etc.

Active and Idle Ginneries in the United States and Average Number of Running Bales ginned per Active Establishment

Source: United States Bureau of the Census

		G	ROWT	н Үе	AR		Total Ginneries	Active Ginneries	Idle Ginneries	Bales ginned per Establishmen
1915							26,721	23,162	3,559	478
1916							25,999	21,624	4,375	526
1917							24,272	20,351	3.921	553
1918							23,439	19,259	4.180	618
1919							22.418	18,815	3,603	602
1920							21.876	18.440	3,436	720
1921							20,938	16.192	4,746	493
1922							19.939	15.420	4.519	631
1923							19.195	15,298	3.897	665
1924	i						18,656	15,478	3,178	881

Estimated Values of Cotton and Cotton Seed produced

Source: United States Bureau of the Census

		Gı	ROWTE	I YEA	R		Value of Cotton produced	Value of Cotton Seed produced	Total Value of Cotton Crop
 1915							\$627,940,000	\$167,900,000	\$795,840,00
1916							994,060,000	259,070,000	1,253,130,00
1917							1,532,690,000	333,550,000	1,866,240,00
.918							1,737,710,000	349,490,000	2,087,200,00
919							2,030,960,000	340,470,000	2,371,430,00
920							1,067,240,000	136,990,000	1,204,230,00
921							675,630,000	104.560.000	780,190,00
922	Ċ			•			1,117,060,000	150,400,000	1,267,460,00
923	•						1,455,170,000	190.059.000	1,645,220,00
924	•	•	•				1,561,010,000	206,220,000	1,767,230,00

Yearly Average Prices of Cotton and Cotton Seed paid to Producers in the United States

		(CROP	Y_{EAR}			Yearly Average Price of Lint Cotton per Pound (in Cents)	Yearly Average Price of Cotton Seed per Ton
1915							11.22	\$33,60
1916							17.28	50.50
1917							27,12	66.08
1918							28.76	65.32
.919							35.36	67.18
920							15.89	22.92
921							16.90	29.72
922							22.85	34.70
923							28.70	42.22
924							22.91	34.16

Cotton ginned to Specified Dates and throughout the Season

[Running bales, except that round bales are counted as half bales. Linters are not included]

Source: United States Bureau of the Census

		Year o	F GROWTH		
1920	1921	1922	1923	1924	1925 1
251.500	185 787	S06 1S0	1 149 660	958 204	1.892.549
		,	3,235,974	· ·	
			6,409,391	7,600,826	9,519,784
7,508,633	6,646,354	8,139,215	$7,\!556,\!042$	9,694,920	11,198,660
8,914,642	7,274,201	8,869,978	8,369,498	11,147,524	12,249,935
10,141,293	7,639,961	9,319,601	$-9,243,380^{\circ}$	12,225,025	13,857,686
10.876,263	7,790,656	9,488,852	9,549,015	12,796,216	14,826,452
11,554,648	7,882,356	9,597,330	9,811,038	_ 3	_
12,014,742	7,912,452	9,648,261	9,944,032	13,308,037	15,488,230
12 970 070	7 077 778	0.720.306	10 170 594	13 630 608	16 103 586
	351,589 2,249,606 5,754,582 7,508,633 8,914,642 10,141,293 10,876,263 11,554,648 12,014,742	351,589 485,787 2,249,606 2,920,392 5,754,582 5,497,364 7,508,633 6,646,354 8,914,642 7,274,201 10,141,293 7,639,961 10,876,263 7,790,656 11,554,648 7,882,356 12,014,742 7,912,452	1920 1921 1922 351,589 485,787 806,189 2,249,606 2,920,392 3,866,396 5,754,582 5,497,364 6,978,321 7,508,633 6,646,354 8,139,215 8,914,642 7,274,201 8,869,978 10,141,293 7,639,961 9,319,601 10,876,263 7,790,656 9,488,852 11,554,648 7,882,356 9,597,330 12,014,742 7,912,452 9,648,261	351,589 485,787 806,189 1,142,660 2,249,606 2,920,392 3,866,396 3,235,974 5,754,582 5,497,364 6,978,321 6,409,391 7,508,633 6,646,354 8,139,215 7,556,042 8,914,642 7,274,201 8,869,978 8,369,498 10,141,293 7,639,961 9,319,601 9,243,380 10,876,263 7,790,656 9,488,852 9,549,015 11,554,648 7,882,356 9,597,330 9,811,038 12,014,742 7,912,452 9,648,261 9,944,032	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

¹ March, 1926, preliminary report.

Per Cent of Total Cotton ginned to Specified Dates

D G			YE.	AR OF GRO	WTH		
PER CENT GINNED TO —	1919	1920	1921	1922	1923	1924	1925 1
September 1	1.3	2.6	6.1	8.3	11.2	7.0	11.7
September 25 .	16.2	17.0	36.6	39.7	31.8	33.22	44.1
October 18 .	43.5	43.4	68.9	71.7	63.0	55.7	59.1
November 1 . \bot	55.7	56.6	83.3	83.7	74.3	71.1	-69.5
November 14 .	67.1	67.2	91.2	91.2	82.3	81.7	-76.0
December 1 .	78.1	76.4	95.8	95.8	90.9	89.6	-86.0
December 13 .	83.0	82.0	97.7	97.5	93.9	93.1	92.0
January 1 .	88.4	87.1	98.8	98.6	96.4	_ 3	
January 16 .	91.0	90.5	99.2	99.2	97.8	97.6	96.1

¹ Preliminary ostimates.

² Ginned to October 1.

No ginning report.

² Ginned to October 1.

³ No ginning report.

Estimated Quantity of Cotton Seed produced, Quantity of Cotton Seed crushed, and Quantities and Values of Crude Products obtained

Statistics of the quantity of seed produced relate to the preceding crop year. Those of the quantity crushed and of the quantities and values of products obtained relate to the year ending July 31.

Source: United States Bureau of the Census

Quantity Value of Linters Value alls (500-Pound of Linters Bales)	0,000 533,099 \$5,150,000 0,000 583,091 7,450,000 0,000 660,087 7,630,000 0,000 820,274 6,150,000 0,000 1,273,345 45,133,000 889,507 26,604,000 65,000 422,225 0,22,000 0,000 584,177 17,109,000 642,348 22,007,000 642,348 22,007,000 0,000 859,624 21,268,000
Quantity Value of Hulls (Tons)	\$131,340,000 201,650,000 866,580,000 1,540,000 1,540,000 9,710,000 159,670,000 1,540,000 9,710,000 159,670,000 1,540,0
utity Value ake of Cake Meal and Meal	2,151,000 549,720,000 2,2290,000 59,810,000 2,648,000 57,740,000 2,252,000 74,586,000 2,1252,000 77,586,000 1,817,000 116,119,039,000 1,855,000 59,832,98,000 1,856,000 59,832,000 1,856,000 59,832,000 1,856,000 59,832,000 1,518,000 59,837,000 1,518,000 59,837,000 2,125,618 79,173,000
Value of Cake of Oil and Meal (Tons)	131,340,000 201,650,000 \$66,580,000 2,151,000 132,230,000 185,750,000 69,100,000 2,220,000 159,670,000 193,330,000 80,540,000 2,220,000 152,880,000 229,260,000 80,540,000 2,648,000 180,260,000 167,110,000 87,940,000 2,225,000 287,192,000 187,688,000 217,902,000 2,053,000 380,736,000 174,906,000 2,175,000 383,580,000 167,711,000 29,656,600 1,817,000 156,513,000 174,558,000 24,650,000 1,786,000 136,513,000 137,23,000 84,818,000 1,355,000 173,254,000 133,723,000 84,818,000 1,487,000 182,137,000 187,170,824 126,665,000 1,518,000 240,855,000 187,170,824 126,665,000 2,125,618
Quantity of Oil (Callons)	131,340,000 201,650,000 159,670,000 185,5750,000 152,880,000 193,330,000 180,260,000 187,688,000 287,192,000 187,688,000 380,736,000 174,996,000 383,580,000 174,598,000 186,513,000 174,558,000 186,513,000 174,558,000 173,254,000 133,723,000 182,137,000 130,616,000
Total Value of Products	
d Cotton Seed seed reed crushed ns) (Tons)	6,997,000 4,921,073 6,104,000 4,579,508 6,305,000 4,847,628 7,186,000 5,779,665 4,992,000 4,202,313 5,113,000 4,479,176 5,040,000 4,478,508 5,360,000 4,478,508 5,577,000 4,012,704 6,971,000 3,007,717 4,336,000 3,227 6,051,000 4,605,227
YEAR Cotton Seed produced (Tons)	1912 (6,997,000 1913 (6,104,000 1914 (6,305,000 1915 (7,186,000 1916 (4,992,000 1917 (7,180,000 1918 (7,000 1918 (7,000 1920 (7,000 1921 (7,000 1922 (7,000 1923 (4,336,000 1923 (4,336,000 1924 (4,336,000 1925 (1,000 1925 (1,000 1927 (1,000 1928 (1,000 1928 (1,000 1928 (1,000 1929 (1,000 1920 (1,

Review of Last Seven American Cotton Crops, 1919 to 1925

1919. The acreage planted in 1919 was about the average for the few years immediately preceding, the area under cultivation at the end of June being 35,133,000 acres. Weather conditions during the spring were decidedly unfavorable. Frequent rains in March delayed preparation of the soil and planting, cool weather in April retarded germination and growth, frost late in April damaged the plant in the Carolinas, while frequent rains and persistently cool weather during May continued to affect the cotton adversely in most sections of the belt. The eastern section suffered the least, and there the condition of the crop at the end of May was fairly good, but in most of the western portions of the belt the crop was in very poor condition. Similar conditions continued through June, more particularly in the western and southern portions of the belt. In July the weather was more favorable in the West, the rainfall being much less than earlier in the season, but in the East there was too much rain, resulting in rank growth of stalk. Weather conditions caused much damage by insect pests. During August the weather was fairly favorable in most sections and the crop made moderate progress, but at the end of the month the situation was unsatisfactory over large sections of the belt. There was a great variety of weather in different sections during September, resulting in good progress in some states and deterioration elsewhere. October was decidedly unfavorable, persistent rains resulting in bolls decaying, seed sprouting, and discoloration of open cotton. The rains continued well into Novem-Extensive killing frost occurred in the Gulf States about the middle of November. Boll weevil injury during 1919 was decidedly variable in its intensity, but in the country as a whole was comparatively light. The acreage harvested was 33,566,000. The average yield per acre was low, being only 161.5 pounds. The crop was the fifth short one in succession, totalling only 11,325,532 running bales, counting round as half bales, exclusive of linters. Linters totalled 595,093 bales, making the total crop, including linters, 11,920,625 bales.

1920. A large area was planted to cotton in 1920, there being 37,043,000 acres under cultivation at the end of June. In only three years, 1913, 1914 and 1918, had this acreage been exceeded. The record acreage of 1913 was not very much larger than this, being 37,458,000. The 1920 crop got a poor start. Low temperatures and excessive rains delayed planting in some parts of the belt, and in other sections damaged the plants to such an extent that replanting was necessary. The crop was in poor condition at the end of May in all sections of the belt, especially in Texas and the Southeast. Much better weather prevailed in

June, with resulting steady, and, in some parts of the belt, rather pronounced improvement. Weather conditions were normal during the first two weeks of July, but less so in the last week, due to frequent rains and lack of sunshine in Florida, Alabama, parts of Mississippi and in Louisiana. These conditions caused shedding and weevil activity. During August the crop made satisfactory advance in the more western and northwestern portions of the belt, but in the Southern States excessive rainfall interfered with its progress. At the end of the month the crop was in poor condition over a large part of the South, particularly Louisiana, Mississippi, Alabama, Georgia and Florida. The weather in September generally favored rapid opening of the bolls and quick harvesting. In October continued mild weather brought to maturity the late plants in the Northeastern States. The acreage harvested was 35,878,000. The average yield per acre was fairly good, being 178.4. The crop was the first of even average size since 1914. It totalled 13,270,970 running bales, counting round as half bales, exclusive of The linters totalled 429,005 bales, making the total crop, including linters, 13,699,975 bales.

1921. The 1921 cotton crop was notable, not only on account of its smallness, but also because of the unusual degree to which the government and the trade misjudged its size until after picking was practically completed. As a result of the great decline in the price of the staple during the preceding season, a determined campaign was conducted throughout the belt to reduce the acreage, and the general impression through most of the growing season was that the area planted had actually been cut by fully 25 per cent as compared with 1920. This was confirmed by the Department of Agriculture, which reported in June that the acreage was 28.4 per cent less than the year previous and aggregated only 26,519,000 acres. At the very beginning of the season, weather conditions were generally favorable, but later, during April, excessive rains and low temperatures did much damage and forced a great deal of replanting. May was more propitious, and in June the crop continued to make some progress, but on the whole the crop was in a very unsatisfactory condition at the end of June. Usually a low condition in one section of the belt is offset by fair to good conditions elsewhere, but in 1921 the condition at the close of June was low in almost all sections. In July the crop continued to lose ground slowly, and in August it deteriorated rapidly, largely due to an extensive drought in Texas, Oklahoma and Louisiana, excessive rains in some parts of the belt east of the Mississippi, and extraordinary ravages by the boll weevil. The result of all these adverse factors was that the government announced in September that the condition as of August 25 warranted a forecast of only 7,037,000 bales, and in October, taking the condition of September 25 as a basis, it predicted a crop of only 6,537,000 bales. These estimates, however, proved to be unduly low, not so much because of underestimating the yield per acre as because, as it was afterward shown, the acreage itself had been greatly understated. In December the Department announced that it was obliged, by information that it had received during the latter part of the season, to raise its estimate of the acreage from 26,519,000 to 31,678,000 acres. Only 30,509,000 acres were harvested, yielding 124.5 per acre. The crop totalled only 7,977,778 running bales exclusive of linters, and was the smallest in size since 1895. Linters aggregated 382,375 bales, making the total crop, including linters, 8,360,153.

The boll weevil held the centre of the stage during 1922. was hoped that after the small 1921 erop, 1922 would bring a pre-war normal, or at least one around 12,000,000 bales, but on June 25 the government forecast of 11,065,000 bales and 34,016,000 acres, and a month later of 11,449,000 bales dampened this somewhat. The season, however, was late, and heavy rains and low temperatures kept the crop back. Replanting was necessary in many instances and caused the weevil to be even more formidable as the advantage to be gained by an early start was lost. Drought in the Western States which mitigated against the pest also affected the crop seriously, so that hopes for a fair yield per acre were soon dissipated. The critical months of July and August brought an unusual condition. Would the poorly rooted crop resulting from a wet spring be damaged by hot weather unfavorable to the weevil? The answer was a split between hot weather damage in the Southwest and the boll weevil in the East. As a result the crop estimate fell to 10,575,000 bales on August 25 and to 10,135,000 on September 25. Picking and ginning were rapid, and growers were disposed to sell just as rapidly, so the crop came on the market speedily. The December forecast of 9,964,000 caused further disappointment. Actual production amounted to 9,762,069 bales from 33,036,000 acres, or a yield of 141.5 pounds per acre.

1923. The tremendous acreage of 38,287,000 was under cultivation on June 25, as it was expected the world would readily consume a large crop after the small production of the two previous years. Unfortunately weather conditions were not propitious. A season which promised to be early turned out late. Much rain fell in the East during August, and the temperature was below normal. In the West, especially Texas and Oklahoma, a severe drought extended through July and August. The government forecast fell from 11,412,000 bales on June 25 to 10,081,000 in December. The March report of cotton ginned was

10,128,478 bales of 500 pounds each, and indicates a yield of 128.8 pounds per acre, based on 37,420,000 acres harvested. It seems weather conditions and not the boll weevil should be emphasized in discussing the 1923 crop. The weevil can be controlled, but the weather cannot. The weather, furthermore, is the supreme factor in raising cotton, and it must be acknowledged that in recent years excessive rain and drought have been to a great extent determining causes of small production.

1924. The crop of 1924 was one of surprises. The planting season was wet and cold. Many growers feared this would counteract the effects of the cold weather which had greatly reduced the number of boll weevils. May, however, proved a favorable month, and the recordbreaking acreage planted (41,390,000) gave rise to hopes of a large crop.

June marked the beginning of a long drought which persisted in nearly all sections throughout the season. The crop withstood the dry weather satisfactorily as a result of the ample moisture in the soil. As the season progressed favorable conditions caused both government and private forecasts of the crop to be increased steadily. The much-discussed semi-monthly forecasts of the Department of Agriculture were inaugurated during the season of 1924.

The fall weather proved nearly ideal for harvesting the crop, and picking and ginning were carried on at a record pace. The March ginning report shows a crop of 13,618,751 bales, the largest crop in ten years. This figure indicates a yield of 162 pounds per acre as compared with the five-year average yield of 147 pounds per acre.

The boll weevil, a factor of utmost importance in previous years, did not play an important part in 1924. The cold winter and dry summer conspired to reduce the number of weevils very materially. The small amount of weevil damage and the large acreage planted were the outstanding features of the year's cotton crop.

1925. The planting season of 1925 started favorably, and a very large acreage was planted to cotton throughout the South. In fact, the acreage planted in 1925 established a new record, the government estimate of June 25 giving a figure of 46,448,000 acres. Later developments were less favorable, however, and considerable replanting became necessary in certain sections.

In midsummer a large part of the western half of the belt began to suffer from lack of moisture. The drought which was especially serious in southern Texas was not relieved until fall, so that over a considerable area the crop was practically a failure and many fields were completely abandoned. Outside of this southwestern territory, which was

affected by abnormally light rainfall, the crop progressed satisfactorily in practically all sections.

The rather hot and dry weather which prevailed during a large part of the season aided in keeping the weevil in check, so that comparatively little damage was suffered from this cause.

The large acreage planted permitted and made possible a satisfactory crop in spite of the failure of some relatively limited areas. The March ginning report indicates a crop of 16,103,586 bales, the largest in ten years. One outstanding feature of the year's growth was the very large quantities of low grades produced, especially in some sections where replanting had made the crop late.

¥. VA ξ. The American Cotton Belt PROGRESS OF BOLL WEEVIL INFESTATION CENTER OF COTTON PRODUCTION REPORTING COTTON 1923 ġ W KAN8. COLO.

Percentage of Loss of Cotton due to Boll Weevil, 1911-24

[Expressed in percentage of a normal or full yield per acre]

Source: United States Department of Agriculture

STATE	1911	1 1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1524
North Carolina	1	ı	1	ı	1	I	ı	ı	1	ı	62 72 33	5 57	26 81	7 49
South Carolina .	1	ı	1	ı	30.	.00	Ξ.	.07	3.0	13.26	31.48	40.48	26.95	15, 93
Georgia	1	1	-Te	1	.2S	3.44	90.6	10.73	19.36	30.56	45.12	41.28	36.62	15, 11
Florida	1	-30	08.11	1	13.14	20.98	27.07	23.85	40.46	32.10	27.62	32.50	32.53	27.73
Tennessee	1	1	.10	.0s	.04	1.23	1.74	.37	.17	.57	7.21	8.84	20.75	25. 35. N. 35.
Alabama	.20	20 1.50		6.02	16.16	27.91	28.88	12.14	28.77	36.03	32.39	25.51	32.52	11.77
Mississippi	5.10	0 18.00	33.90	24.14	24.68	31.73	65 65 65 67	10.41	19.56	32.25	30.38	27.65	30.85	17
Louisiana	. 11.40	13.70	25.10	17.66	19.85	24.31	11.89	9.79	24.84	25.99	34.80	24.61	23.25	4.59
Texas	6.	.90 2.80	6.80	7.86	16.28	18.53	7.26	4.43	13.96	19.90	33.66	16.25	96.6	7.63
Oklahoma	- 05	.50	9.	62.	2.70	3.70	4.35	1.30		8.81	41.36	25.67	19.33	3.93
Arkansas		0 2.40	2.80	2.93	4.60	7.49	8.96	3.14	4.79	9.41	21.84	18.15	15.87	3.70
United States average ¹	1.28	3.26	9.99	5.91	9.93	13.36	9.34	5.83	13.20	19.95	30.98	24.17	19.55	s. 0.0

Average is weighted and includes cotton States in which there was no damage by boll weevil.

Indian Cotton Production

These statistics embrace all cotton produced in India, including that used in house manufacture as well as that taken by factories or exported.

[In bales of 400 pounds each] Source: Indian Department of Statistics

Provinces and States	1921-22	1922-23	1923-24	1924-25	1925-261
Bombay ²	1,085,000	1,328,000	1,212.000	1,538,000	1,298,000
Central Provinces and Berar .	1,127,000	1,040,000	1,020,000	1,050,000	948,000
Madras ²	336,000	431,000	484,000	559,000	428,000
Punjab ²	296,000	397,000	630,000	893,000	856,000
United Provinces 2	244,000	180,000	213,000	275,000	277,000
Sind^2	52,000	_ 3	_ 3	_ 3	_ 3
Burma	40,000	45,000	46,000	70,000	78,000
Bengal ²	15,000	17,000	21,000	24,000	26,000
Bihar and Orissa	15,000	15,000	16,000	14,000	15,000
North-West Frontier	3,000	3,000	5,000	8,000	7,000
Assam	12,000	14,000	14,000	15,000	13,000
Delhi	300	1,000	1,000	1,000	1,000
Ajmer-Merwara	12,000	15,000	13,000	15,000	17,000
Hyderabad	870,000	1,116,000	1,079,000	899,000	970,000
Central India	204,000	181,000	162,000	239,000	228,000
Baroda	\$5,000	116,000	76,000	171,000	168,000
Rajputana	68,000	76,000	73,000	87,000	90,000
Mysore	15,000	24,000	15,000	36,000	24,000
Gwalior	-	74,000	60,000	94,000	124,000
Total	4,479,000	5,073,000	5,140,000	5,988,000	5,569,000

¹ December, 1925, estimate.

² Includes Indian States.

³ Included in Bombay.

Indian Cotton Yield per Acre

[In pounds]

Source: Indian Department of Statistics

Provinces and States	1920-21	1921-22	1922-23	1923-24	1924-25	1925-26
Bombay ²	66	96	90	71	82	72
Central Provinces and Berar .	46	102	102	83	81	71
$Madras^2$	64	79	75	73	78	78
Punjab 2	110	93	115	131	141	118
United Provinces 2	116	119	108	130	105	110
Sind 2	60	145	172	-3	_3	_3
Burma	67	52	66	61	86	79
Bengal 2	120	91	94	118	125	135
Bihar and Orissa	79	75	75	79	71	76
North-West Frontier	74	80	80	87	82	87
Assam	141	113	130	144	133	108
Delhi	-	80	152	133	100	67
Ajmer-Merwara	143	185	167	127	133	126
Hyderabad	62	119	117	123	105	104
Central India	49	70	97	66	71	72
Baroda	64	57	80	46	104	81
Rajputana	87	92	101	88	87	89
Mysore	40	102	116	71	122	126
Gwalior	-	-	-	48	54	74
Average	68	97	98	87	91	85

¹ December, 1925, estimate.

² Includes Indian States.

³ Included in Bombay.

Indian Cotton Acreage

Source: Indian Department of Statistics

Provinces and States	1921-22	1922-23	1923-24	1924-25	1925-26 1
Bombay ²	4,532,000	5,817,000	6,788,000	7,510,000	7,203,000
Central Provinces and					
Berar	4,414,000	4,857,000	4,933,000	5,202,000	5,366,000
Madras ²	1,803,000	2,348,000	2,663,000	2,866,000	2,192,000
Punjab ²	1,239,000	1,394,000	1,927,000	2,536,000	2,894,000
United Provinces ² .	828,000	664,000	654,000	1,046,000	1,005,000
Sind 2	144,000	_ 3	_ :	_ 5	_
Burma	325,000	284,000	301,000	326,000	394,000
Bengal ²	65,000	72,000	71,000	77,000	77,000
Bihar and Orissa	79,000	80,000	81,000	79,000	79,000
North-West Frontier .	15,000	15,000	23,000	39,000	32,000
Assam	40,000	40,000	39,000	45,000	48,000
Delhi	2,000	2,000	3,000	4,000	6,000
Ajmer-Merwara	26,000	36,000	41,000	45,000	54,000
Hyderabad	2,914,000	3,813,000	3,500,000	3,412,000	3,713,000
Central India	1,069,000	889,000	982,000	1,352,000	1,268,000
Baroda	600,000	585,000	657,000	658,000	827,000
Rajputana	297,000	302,000	330,000	401,000	403,000
Mysore	59,000	83,000	84,000	118,000	76,000
Gwalior	-	523,000	500,000	699,000	668,000
Total	18,451,000	21,804,000	23,577,000	26,415,000	26,305,000

¹ December, 1925, estimate.

² Includes Indian States.

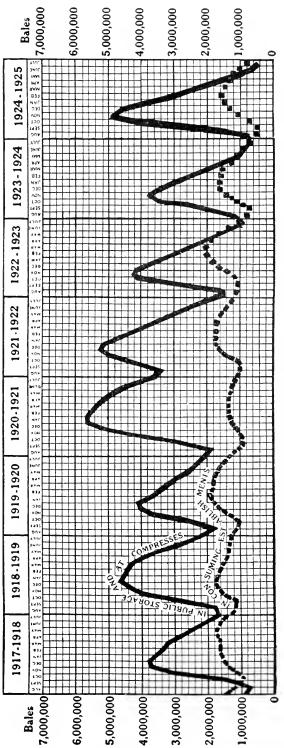
³ Included in Bombay.

United States Stocks of Cotton and Linters

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		TOTAL	TOTAL COTTON ENCLUSIVE OF LINTERS	LIN	LINTERS	SEA	SEA ISLAND	EGYPTIAN	IAN
AT END OF—	H	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage
		866,259	514,196	128,478	28,628	2,703	501	50,475	11,526
		1.123,813	759,945	146,673	35,173	478,5	527	240,65	15,426
May, 1925		1,348,304	1,134,920	154,632	45,225	2,932	629	64,131	20,411
		1,514,514	1,666,147	162,861	49,663	3,161	229	709°50	25,770
	•	1,644,793	2,237,115	157,872	62,256	3,333	25 <u>8</u>	71,499	21,509
_ ·		1,546,210	3,075,140	149,292	199,661	3,242	1,247	63,736	11,192
-		1,433,814	3,863,475	137,634	58,290	3,588	808	51,944	10,742
December, 1924		1.319.265	4.623.863	118.924	53.017	3,342	1.090	34.907	7.505
,		1.046,612	4.914.219	95,781	50.804	3,081	1,043	25,002	6,853
October, 1924		730,656	4,224,854	74,405	46,958	2,789	1,160	27,409	6,325
September, 1924		514,537	2,072,956	70,479	38,202	2,667	1,355	36,468	7,025
August, 1924		552,669	810,913	83,334	44,239	2,282	1,432	44,721	9,783
Season ending —									
July, 1924		719,827	673,934	100,632	54,026	2,465	2,038	51,655	12,586
July, 1923	•	1,093,618	938,903	127,139	36,000	2,947	3,969	S6,508	51,316
July, 1922		1,218,388	1,488,165	138,523	54,587	3,787	3,303	65,863	53,427
July, 1921		1,111,147	3,723,213	201,353	234,926	4,489	0,126	68,914	59,148
July, 1920		1,358,147	2,055,015	277,218	382,432	14,654	9,791	117,300	102,799
July, 1919	•	1,303,418	2,208,367	266,539	227,358	19,487	31,538	36,858	15,899
July, 1918		1,465,223	1,734,965	138,108	236,809	20,000	36,494	35,917	31,363
July, 1917		1,501,916	888,257	112,972	230,687	36,482	19,912	75,250	42,662
July, 1916		1,632,245	1.107,464	100,441	113,106	27,454	10,870	123,406	59,205
July, 1915		1,401,185	1,784,919	198,905	89,881	24,919	4,678	- 828.98 - 828.98	25,123
August, 1914		675,873	546,944	75,346	29,673	21,028	7,453	52,413	6,205
August, 1913		717,704	467,902	60,454	27,378	968'61	Not available	74,518	1,876



The above chart is based on the table on the following page.

United States Stocks of Cotton in Consuming Establishments, in Public Storage and at Compresses

[American cotton is counted in running bales; foreign cotton, in equivalent 500-pound bales]

Linters are not included

The table below does not include cotton in transit, in private storage or on plantations. It embraces merely the cotton in consuming establishments, in public storage and at compresses, as compiled monthly by the United States Bureau of the Census.

	191	1919-20	1920-21)-21	1921	1921-22	1922-23	-23	192	1923-24	1924	1924-25
AT END OF —	In Consuming Establish- ments	In Public torage and at Com- presses	In Consuming Establish- ments	In Public In at Consuming at Conpublishments presses	In Consuming Establish- ments	In Public Storage and at Com- presses	In Consuming Establish- ments	Storage and Consuming Storage and Consuming Storage and Establish at Com- Establish presses ments	In Consuming Establish- ments	In Public Storage and at Com- presses	In Consuming Establish- ments	In Public Storage and at Com- presses
August	1,133,365	1,816,596	1,126,783	1,964,463	1,006,066	3,463,964	1,024,874	1,530,141	810,511	1,172,287	552,669	810,913
September .	1,067,970	2,502,307	901,373	2,797,338	1,118,045	4,312,135	1,065,816	3,217,939	772,632	2,147,012	514,537	2,072,956
October	1,365,139	3,687,141	940,480	4,132,967	1,398,138	4,984,831	1,381,945	4,287,119	1,106,347	3,485,005	730,656	4.221,854
November .	1,642,425	4,063,176	1,118,418	5,100,978	1,655,359	5,292,941	1,724,488	4,197,955	1,444,474	3,769,204	1,016,612	4,914,219
December .	1,836,703	4,164,208	1,251,122	5,623,646	1,738,138	5,206,663	1,917,231	4,069,470	1,627,628		1,319,265	4,623,863
January	1,952,326	3,758,329	1,263,961	5,645,482	1,668,668	4,621,708	1,988,115	3,485,952	1,637,824	2,963,953	1,433,814	3,863,475
February	1,869,368	3,530,654	1,327,155	5,503,139	1,595,242	4,214,862	2,020,900	2,803,304	1,583,439		1,546,210	3,075,140
March	1,853,996	3,240,197	1,336,542	5,252,852	1,557,023	3,752,258	2,033,837	2,379,697	1,498,266		1,633,783	2,028,331
April	1,811,527	2,978,158	1,315,706	5,026,894	1,461,340	3,213,483	1,878,198	1,965,714	1,328,273	1,512,086	1,514,514	166,147
May	1,698,833	2,586,868	1,280,723	4,738,267	1,420,428	2,559,451	1,634,167	1,580,219	1,157,778		1,348,304	1,134,920
June	1,554,274	2,301,016	1,203,364	4,300,386	1,330,903	1,953,478	1,347,468	1,227,184	950,625		1,123,813	759,945
July	1,358,147	2,055,015	1,111,147	3,723,213	1,218,388	1,488,165	1,093,618	938,903	719,827	673,934	866,259	514,196
		_										

Carry-over of Cotton

The term "carry-over" has several meanings. It may refer (1) simply to cotton held in the United States, or (2) American cotton held anywhere in the world, or (3) all kinds of cotton held anywhere in the world. Statistics of carry-over as issued by trade authorities differ widely from each other each year, not only because of the various meanings of the term, as just stated, but also because some authorities count the carry-over in running bales, disregarding the fact that Egyptian bales, for example, weigh approximately 750 pounds and Indian bales only 400, while others compute the quantities of foreign cottons in equivalent 500-pound bales, and some authorities include American linters while others do not.

Following are statistics of the amount of cotton earried over from each season for several years past, as computed, on different bases, by leading authorities.

World Carry-over of American Cotton

The table below was compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange. It includes all American cotton held in the American cotton belt, — i.e., at southern mills, at counted and uncounted interior towns, and on plantations, — stocks at northern mills and at the ports of the United States, and stocks at European ports and at European mills. This embraces practically all American cotton held anywhere in the world. The only stocks not included in this table are those in Japan and scattering stocks in the less important manufacturing countries where some American cotton may be found, such as Canada and Mexico. The cotton is counted in running bales, round bales being counted as half bales.

	DATI	E			Including Linters	Exclusive of Linter
July 31, 1925					2,880,000	2,715,000
July 31, 1924				.	2,319,000	2,089,000
July 31, 1923				.	2,573,000	2,396,000
July 31, 1922					4,879,000	4,547,000
July 31, 1921					9,364,000	8,699,000
July 31, 1920					6,216,000	5,216,000
July 31, 1919					6,909,000	6,094,000
July 31, 1918					4,422,000	4,018,000
July 31, 1917					4,305,000	3,688,000
July 31, 1916				.	5,105,000	4,742,000
July 31, 1915					7,701,000	7,551,000
August 31, 1914				. '	4,564,000	4,399,000

Carry-over Stocks of All Cottons in the World

Source: Merchants National Bank of Boston

[American cotton in running bales; foreign cottons in equivalent bales of 478 pounds net weight; American linters not included]

		Carry-	OVER OF ALL	Cottons	
	July 31, 1921	July 31, 1922	July 31, 1923	July 31, 1924	July 31, 1925
In public storage, etc.:					
Farms, etc., in United					
States	2,062,000	616,000	280,000	160,000	230,000
Public storage in					
United States	3,724,000	1,488,000	940,000	673,000	507,000
Alexandria	395,000	330,000	204,000	76,000	82,000
Bombay	724,000	492,000	258,000	323,000	255,000
Affoat to Europe	483,000	393,000	265,000	303,000	304,000
Ports, etc., in Europe	1,754,000	1,348,000	717,000	834,000	993,000
Elsewhere ¹	1,403,000	824,000	659,000	370,000	954,000
Total	10,545,000	5,491,000	3,323,000	2,739,000	3,325,000
In mills:					
United States	1,111,000	1,218,000	1,091,000	719,000	869,000
Great Britain	358,000	335,000	258,000	214,000	264,000
Continent	836,000	973,000	690,000	846,000	1,109,000
Elsewhere	1,838,000	1,977,000	1,585,000	1,460,000	1,541,000
Total	4,143,000	4,503,000	3,624,000	3,239,000	3,783,000
Grand total .	14,688,000	9,994,000	6,947,000	5,978,000	7,108,000

^{*}Includes cotton afloat to the Orient, in warehouses and in transit in the Orient and in transit in Europe.

Supply and Distribution of Cotton in the United States for the Twelve Months ending July 31, 1925

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton and domestic cotton, rein ported, in equivalent 500-pound bales. Linters are not included]

Source: United States Bureau of the Census

	Su	PPLY				Bales
On hand August 1, 1924, total						1,555,514
In consuming establishments, total					721,589	
In cotton-growing States				340,157		
In all other States				381,432		
In public storage and at compresses					673,925	
In cotton-growing States				526,662		
In all other States				147,263		
Elsewhere (partially estimated) 1 .					160,000	
Imports foreign cotton, total					313,328	
Re-exported					9,885	
Net imports						303,443
Ginnings, erop of 1924, total					13,639,399	
Prior to August 1, 1924					21,795	
During cotton year 1924-25 .						13,617,604
Ginnings, crop of 1925 prior to Augus						161,683
Aggregate supply						15,638,244
Dr	STR	1BUT16	οx			
Exports domestic cotton, total .					8,005,228	
Reimported					6,503	
Net exports						7,998,725
Consumed, total						, ,
In cotton-growing States					4,220,010	
In all other States					1,973,407	
Burned						26,000
Burned On hand July 31, 1925, total						1,609,848
In consuming establishments, total					865,842	
In cotton-growing States .				428,647		
In all other States				437,195		
In public storage and at compresses	s .				514,006	
In cotton-growing States				389,488		
In all other States						
Elsewhere (partially estimated) 1 .					230,000	
Aggregate distribution						15,827,990
Excess of distribution over supply ²						189,740

¹ Includes cotton for export on shipboard but not cleared; cotton coastwise; cotton in transit to ports,

interior towns, and milks; cotton on farms, etc.

Due principally to the inclusion in all distribution items of the "city crop," which consists of rebaled samples and pickings from cotton damaged by fire and weather.

World Supply and Consumption of American Cotton

The tables below, compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange, show the world supply and consumption of American cotton, inclusive of linters, season by season since 1914–15. In considering these statistics it should be borne in mind that they relate only to American cotton. They do not include Egyptian, Indian or other foreign growths. The figures of supply at the beginning of each season include mill stocks in the United States and Europe, stocks at counted and uncounted interior towns and on plantations in this country, and stocks at ports in this country and Europe. The statistics on consumption include consumption in this country and abroad. These statistics are in running bales.

Supply and Consumption, including Linters

			_				
	у Sел то Ј			Supply at Beginning of Season	Crop	Total Supply for Season	Consumption
1914–15				4,564,000	17,004,000	21,568,000	13,834,000
1915-16				7,701,000	12,175,000	19,876,000	14,812,000
1916-17				5,105,000	12,966,000	18,071,000	13,892,000
1917-18				4,305,000	12,424,000	16,729,000	12,282,000
1918-19				4,422,000	13,070,000	17,492,000	10,535,000
1919-20				6,909,000	12,000,000	18,909,000	12,670,000
1920-21				6,216,000	13,750,000	19,966,000	10,330,000
1921-22				9,364,000	8,442,000	17,806,000	12,829,000
1922-23				4,879,000	10,424,000	15,303,000	12,631,000
1923-24				2,573,000	10,985,000	13,558,000	11,241,000
1924-25				2,319,000	14,808,000	17,127,000	14,247,000
1925-26				2,880,000	_	_	-
							1

Stocks of American Cotton at United States Ports July 31

Source: New Orleans Cotton Exchange

			1921	1922	1923	1924	1925
Galveston			242,268	64,735	18,671	41,954	51,572
New Orleans			430,311	76,166	47,595	50,702	49,275
${f Mobile}$.		,	12,987	2,901	850	557	1,303
Savannah			132,215	45,987	12,040	8,390	7,572
Charleston			199,414	53,171	23,870	11,933	7,319
Wilmington			26,826	12,374	5,180	1,828	7,08:
Brunswick			475	1,000	4	1	-
Norfolk .			89,000	34,000	21,000	16,000	20,000
Baltimore			500	1.092	500	500	500
New York			156,441	145,833	42,729	80,759	61,613
Philadelphia	·		5,263	4.258	3,893	3,363	3,45
Boston .	Ċ		10,300	6,209	4,566	4,569	1,43
Pacific ports	Ċ		11,766	71	_	1,046	378
Pensacola			, , , , , , , , , , , , , , , , , , ,	_	- 1	116	15
Jacksonville			1,634	1.433	2,614	1,679	
Γexas City			15,245	1,001	4	_	
Total			1,335,064	450,231	183,516	223,397	211,66

Activity and Normal Operation of American Cotton Industry

Source: United States Bureau of the Census

Монти	Nor	MAL DAYS	OF OPER.	ATION		ntage of Single-sh		ON A
	1924-25	1923-24	1922-23	1921-22	1924-25	1923-24	1922-23	1921-22
August	26	27	27	27	63.0	85.4	91.9	83.8
September	25^{1}_{2}	$24\frac{1}{2}$	$251_{ ilde{2}}$	$25\frac{1}{2}$	76.4	93.6	94.2	90.6
October	26^{3}_{4}	26^{3}_{-4}	25^{3}_{-4}	$25\frac{3}{4}$	86.2	95.8	99.2	92.0
November	24^{1}_{2}	25^{1}_{4}	25^{1}_{-4}	$24\frac{1}{2}$	87.8	96.7	106.5	98.2
December	26	25	25	26	90.7	87.0	101.4	92.7
January	26^{1} $_{2}$	261_{2}	26^{1}_{\cdot}	$25\frac{1}{2}$	97.2	95.5	107.6	96.6
February	23^{2}_{3}	24^{2}_{3}	232%	$23\frac{2}{3}$	100.5	87.3	109.6	93.5
Mareh	26	26	27	27	100.0	82.4	108.3	89.3
April	25%	$25^{2}'_{3}$	24^{2}_{3}	24^{2}_{3}	100.2	80.0	109.2	83.5
May	$25\frac{1}{2}$	$26\frac{1}{2}$	$26\frac{1}{2}$	261/2	93.8	67.5	107.6	87.8
June	26	25	26	26	89.2	64.6	98.8	91.2
July	26	26	25	25	84.6	60.3	87.4	87.2

Consumption and Stocks of Cotton by Kinds

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are not included]

Kind and Locality	Raw Co		SUMED DUR	STOCKS HELD IN CONSUMING ESTAB- LISHMENTS JULY 31 (BALES)					
	1925	1924	1923	1922	1925	1924	1923	1922	
United States	6,193,417	5,680,554	6,666,092	5,909,820	865,842	721,589	1,099,556	1,218,388	
Domestic:									
Upland	5,894,497	5,312,033	6,250,792	5,554,667	781,080	626,597	967,672	1,102,939	
Sea-island	3,970	4,906	6,267	8,967	2,702	2,465	2,947	3,787	
American-Egyptian .	19,018	35,998	65,235	49,359	2,849	8,988	10,524	20,421	
Foreign:									
Egyptian	191,544	223,649	262,331	226,330	50,529	51,655	89,491	62,863	
Peruvian	19,561	29,474	22,818	34,776	2,587	3,609	6,332	7,074	
Chinese ,	40,185	51,472	34,529	22,479	16,258	16,250	15,023	10,156	
Br. Indian	24,573	21,848	16,357	8,832	9,832	12,001	6,892	4,634	
Other	69	1,174	7,763	4,410	5	24	675	6,514	

World's Visible Supply of Cotton during Past Five Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange Statistics

			192	0-21	1921-22		1922-23		1923-24		1924 25	
Week ent	DING -	-	All Kinds	Ameri- can	All Kinds	Ameri- can	All Kinds	Ameri- can	All Kinds	Ameri- can	All Kinds	Ameri- can
August	3		4,833	2.868	6,192	4,024	3,692	1.865	2,039	850	2,148	939
August	10		4,654	2,739	6,071	3,930	3,509	1,762	1,939	799	2,072	910
	17	•	4,555	$\frac{2,130}{2,627}$	5,935	3,830	3,363	1,671	1,917	792	1,931	818
	$\frac{11}{24}$		4,489	2,612	5,817	3,753	3,373	1,643	1.940	829	1,875	792
	31		4,428	$\frac{2,512}{2,568}$	5,701	3,659	3,210	1,629	1,978	924	1,881	835
Contambor			4,363	$\frac{2,503}{2,541}$	5,665	3,654	3,219	1,689	2,013	1,031	1,963	948
September	7	4	4,386	$\frac{2,541}{2,571}$	5,626	$\frac{3,657}{3,657}$	3,266	1,770	2,013 $2,134$	1,189	2.108	1,134
	$\frac{14}{21}$		4,398	2,620	5,674	3,778	3,455	1,996	2,337	1,109 $1,429$	2,362	1,134
	$\frac{21}{28}$		4.508	$\frac{2,020}{2,754}$	5,802	3,940	3,692	$\frac{1,350}{2,265}$	2,550	1.651	2,688	1,423 $1,737$
0-4-1	40 5	•	4,690	2,893	6,005	$\frac{3,940}{4.129}$	3,944	$\frac{2,203}{2,566}$	2,774	1,913	2,932	$\frac{1,137}{2,023}$
October	$\frac{3}{12}$	٠		$\frac{2,395}{3,087}$	6,178	4,309	$\frac{3,944}{4,263}$	$\frac{2,360}{2,869}$	2,964	$\frac{1,919}{2,139}$	3,222	$\frac{2,023}{2,363}$
		•	4,940						3.222	$\frac{2,133}{2,392}$		
	19		5,196	3,335	6,240	4,383	4,531	3,135	3,401	$\frac{2,392}{2,601}$	3,609	2,744
3.T 1	26	•	5,353	3,513	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	4,474	4,827	3,434			3,907	3,062
November	2		5,654	3,768	6,387	4,556	5,027	3,670	3,617	2,791	4,284	3,419
	9	٠	5,860	3,964	6,406	4.609	5.087	3,811	3,924	2,926	4,582	3,736
	16	٠	6,017	$\frac{4,107}{1,012}$	6,430	4,632	5,219	3,925	4,064	3,054	4,835	4,022
	23		6,126	4,243	6,445	4,658	5,253	3,973	$\frac{4,199}{1,259}$	3,161	5,082	4,232
ъ 1	30	•	6,243	4,397	6,450	4,638	5,474	4,009	4,353	3,293	5,312	4,463
December	7		6,419	4,544	6,417	4,625	5,420	$\frac{3,957}{3,907}$	4,436	3,350	5,541	4,667
	14		6,562	4,678	6,316	4,608	5,368	3,907	4,522	3,398	5,681	4,741
	21		6,675	4,764	6,407	4,620	5,358	3.839	4.646	3.405	5,901	4,877
-	28		6,762	4,805	6,472	4,661	5,441	3,800	4,785	3,435	5,966	4,938
January	4		6,797	4,849	6,428	4,587	5,328	3,680	4.853	3.396	6,084	5,022
	11	•	6,784	4,840	6,500	4,561	5,316	3,635	4,891	3,341	6,148	4,979
	18		6,843	4,824	6,512	4,466	5,296	3,513	4,871	3,281	6,115	4,927
T. 1	25	٠	6,890	4,842	6,520	4,389	5,249	3,433	4,910	3.239	6,139	4,885
February	1	•	6,836	4,794	6,447	4,273	5,177	3,324	4,782	3,128	6,025	4,785
	8	٠	6,788	4,760	6,405	4,210	4,984	3,181	4,674	3,057	5,908	4,654
	15		6,795	4,713	6,385	4,135	4,876	3,015	4,694	2.983	5,911	4,607
	22		6,799	4,725	6,256	4,080	4,761	2,890	4,696	2,887	5,836	4,478
	29		6,833	4,707	6,111	3,954	4,734	$\frac{2,763}{2,77}$	4.690	2,790	5,872	4,391
March	7		6,869	4,676	5,985	3,907	4,672	2,674	4,617	2.694	5,748	4,281
	14		6,880	4,627	5,918	3,793	4,614	2,579	4,408	2,551	5,731	4,155
	$\frac{21}{20}$		6,802	4,537	5,893	3,728	4,476	2,468	4,316	2,487	5,603	3,992
4	28		6,813	4,549	5,842	3,657	4,388	2,359	$\ \frac{4.192}{4.050} \ $	2,395	5,434	3,811
April	4		6,771	4,505	5,798	3,613	4,158	2,201	4,059	2,281	5,182	3,592
	11		+6,756	4,498	5,780	3,571	4,105	2,095	3.923	2,172	5,119	3,440
	18	٠	+6,775	4,494	5,703	3,518	4,035	1,978	3,717	2,079	4,982	3,302
	$\frac{25}{2}$	•	+6,786	4,497	5,613	$ \frac{3,409}{2,200} $	3,799	1,900	3,631	1,964	4,907	3,184
May	2	•	-6,793	4,518	5,507	3,332	3,615	1,813	3,546	1,882	4,669	2,982
	9	•	6,840	4,574	5,406	3,262	3,401	1,720	3,432	1,776	4,545	2,825
	16	٠	$\frac{16,859}{6,500}$	4,592	5,256	3,162	3,313	1,619	3,300	1,655	4,273	2,620
	23	•	6,780	4,553	5,181	3,095	3,187	1,538	3,158	1,572	4,169	2,441
7	30	•	6,702	4,547	5,127	3,006	$\ 3,076 \ $	1,447	3,054	1,505	4,003	2,304
June	6	٠	-6,654	4,510	5.033	2,939	2,923	1,347	2,929	1,418	3,851	2,171
	13	-	$\frac{16,679}{6.731}$	4,511	4,834	2,792	2,824	1,286	2,913	1,405	3,651	2,024
	20	•	$\frac{6,731}{6,657}$	4,510	4,738	2,688	2,748	1,221	2.818	1,354	3,425	1,877
11	$\frac{27}{4}$	٠	6,657	4,442	4,592	2,567	2,641	1,145	2,694	1,268	3,151	1,757
July	4	•	$\frac{16,520}{6,117}$	4,353	4,458	2,441	2,502	1,090	2,579	1.200	2,966	1,638
	11	•	$\frac{6,417}{6,200}$	4,241	4,284	2,318	2,341	1,023	2,444	1,113	2,783	1,489
	18	•	$\frac{16,328}{6,373}$	$\frac{1}{4},166$	4,047	2,170	2,256	962	2,370	1,064	2,663	1,390
	$\frac{25}{31}$	•	$\begin{array}{ c c c } 6,253 \\ 6,268 \end{array}$	$\begin{vmatrix} 4,093 \\ 4,113 \end{vmatrix}$	3,855	$\begin{vmatrix} 2,007 \\ 1,968 \end{vmatrix}$	$\begin{vmatrix} 2,192\\2,129 \end{vmatrix}$	898 870	$\begin{vmatrix} 2,270 \\ 2,161 \end{vmatrix}$	952	$\begin{vmatrix} 2,514 \\ 2,288 \end{vmatrix}$	$\begin{vmatrix} 1,283 \\ 1,125 \end{vmatrix}$

Consumption of Cotton, per Thousand Spindles, by Countries

[In running bales.]

Source: International Federation of Master Cotton Spinners' and Manufacturers' Associations Statistics

Countries	1913	1921	1922	1923	1924	1925
World	156.3	116.1	137.3	141.2	128.0	144.3
Great Britain	76.8	35.9	50.6	48.9	47.8	56.6
France	136.4	78.9	110.8	126.0	113.5	119.0
Germany	157.9	114.1	126.2	111.9	81.9	127.4
Italy	171.7	176.5	175.6	195.9	206.1	210.0
Czechoslovakia	170.5^{1}	72.6	104.0	71.2	120.5	139.4
Spain	179.3	165.0	200.5	194.0	201.8	194.1
Belgium	172.4	133.5	151.2	161.9	170.0	170.5
Switzerland	70.4	53.9	57.5	48.7	66.6	71.1
Poland	312.8	114.5	184.9	189.6	162.5	178.3
Holland	177.1	170.4	175.5	165.5	81.6	166.4
Sweden	215.8	110.6	133.4	148.0	151.4	149.6
Portugal	163.6	251.7	156.0	177.1	180.9	149.1
Finland	156.5	120.7	142.2	133.6	119.5	110.6
Denmark	284.8	116.9	188.2	296.0	262.5	-236.7
Norway	154.2	115.1	111.9	112.6	90.9	172.6
India	357.9	331.7	336.7	307.0	260.4	287.0
Japan	690.6	537.1	519.2	535.0	484.3	464.6
U. S. America	183.5	133.9	159.8	177.4	148.5	161.6
Canada	132.7	136.5	149.6	163.9	130.2	122.0
Mexico	226.9	168.1	179.8	177.4	185.7	237.1
Brazil	423.5	378.9	300.7	328.6	222.9	273.3

¹ Including Austria.

Calculated Total World's Cotton Mill Consumption for the Half son, on Basis of Spinners' Returns made

		IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)								
1			Аме	RICAN		EAST INDIAN HALF YEAR ENDING				
	Countries		HALF YE.	AR ENDIN	G					
		July 3 1923		July 31, 1924	July 31, 1923	July 31, 1925	Jan. 31, 1925	July 31, 1924	July 31 1923	
	Europe:			0.50	0.00		2.2			
1	Great Britain	1,25		850	823	97	86	104	68	
2	France	. 430		342	390	83	77	92	96	
3	Germany	. 496		405	292	108	106	118	87	
4	Russia	. 150		$\begin{array}{c} 131 \\ 266 \end{array}$	$\frac{61}{274}$	139	149	170	191	
5 6	Italy	. 346		147	87	64	53	178 68	131 41	
7	Spain	13:		94	94	39	32	74	28	
8	Belgium	80		60	62	70	75	82	68	
- g	Switzerland	3:		$\frac{00}{25}$	26	4	5	6	4	
10	Poland	. 8		$\frac{50}{62}$	74	7	19	16	24	
11	Austria	. 49		40	27	24	22	32	23	
$\hat{1}\hat{2}$	Holland	$\hat{5}$		14	38	14	13	6	13	
13	Sweden	. 3		40	36	1	2	2	2	
14	Portugal	. 28		23	25	_	_	_	_	
15	Finland	1.		1.4	16	-	_	_	_	
16	Denmark		8 9	9	11	-	1	1	1	
17	Norway		4 5	2	3		1	1		
18	Europe total .	. 3,395	2 2,961	2,524	2,339	650	641	780	586	
19	Asia: India		6	1	5	1,196	1,151	916	1,015	
$\frac{19}{20}$	Japan	39		297	330	727	751	732	877	
$\frac{50}{21}$	China	. 40		47	37	195	145	191	186	
		-								
22	Asia total .	. 439	9 333	345	372	2,118	2,047	1,839	2,078	
20	America:	0.00	2012	0.400	0.100		10			
23	U. S. A	. 3,093		2,428	3,198	15	16	15	13	
$\frac{24}{25}$	Canada	. 9.	4 66	$\frac{72}{2}$	83	1	_	_	-	
$\frac{25}{26}$	Mexico Brazil		_ _		9	_	_	_	_	
27	America total .	. 3,18	7 2,876	2,502	3,290	16	16	15	13	
28	Sundries	. 3	1 37	5	3	5	28	2	1	
29	Half year totals	. 7,049	9 6,207	5,376	6,004	2,789	2,732	2,636	2,678	

Year ending 31st July, 1925, with Previous Figures for Comparito the International Cotton Federation

			IN 7	rhousa (REGAR	NDS OF DLESS	F ACTU OF WEI	JAL BAI GHT)	LES				
	Egy	PTIAN			Suni	PRIES			Тота	i.		
I	IALF YEA	R ENDING	ì	I	IALF YEA	R ENDING	3	II	ALF YEA	R ENDING	3	
July 31, 1925	Jan. 31, 1925	July 31, 1924	July 31, 1923	July 31, 1925	Jan. 31, 1925	July 31, 1924	July 31, 1923	July 31, 1925	Jan. 31, 1925	July 31, 1924	July 31, 1923	
198 48 31 20 28 10 7 1 19 3 1 -	233 59 26 20 26 9 14 1 19 4 2 - -	234 57 26 10 33 10 16 4 19 5 2 - 1 1	209 47 18 1 24 6 17 2 16 3 3 2 -	125 28 8 442 11 3 3 4 -6 6 1 1 1 -	152 21 16 293 10 3 4 5 1 6 6 1 1 2 -	153 29 9 162 9 1 8 3 1 8 1 1 6	164 95 10 151 4 4 2 7 1 1 2 1 1 - 24 -	1,672 589 643 612 524 266 181 155 55 101 75 74 39 44 15 8	1,563 533 568 472 478 218 171 150 53 108 61 62 44 31 10 6	1,341 520 558 303 486 192 149 51 75 20 43 40 14 10	1,264 628 407 213 433 138 141 139 47 103 53 52 39 51 16 12 3	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
367	414	418	348	648	525	400	466	5,057	4,541	4,122	3,739	18
$\frac{19}{23}$	6 20 - 26	$\frac{1}{21}$ $\frac{1}{21}$	$ \begin{array}{c c} & 1 \\ & 17 \\ & 1 \\ \hline & 19 \end{array} $	$ \begin{array}{r} 27 \\ 139 \\ 609 \\ \hline 775 \end{array} $	44 114 590 748	$ \begin{array}{r} 7 \\ 113 \\ 620 \\ \hline 740 \end{array} $	15 69 515 599	1,233 1,278 844 3,355	1,207 1,181 766 3,154	$ \begin{array}{r} 925 \\ 1,163 \\ 858 \\ \hline 2,946 \end{array} $	1,036 1,293 739 3,068	$ \begin{array}{r} 19 \\ 20 \\ 21 \\ \hline 22 \end{array} $
$\frac{71}{\frac{1}{1}}$	56 - - -	72 1	103	30 - 86 251	36 - 106 281	28 - 73 185	51 - 54 395	3,209 95 87 252	$\begin{array}{c} 2,918 \\ 66 \\ 106 \\ 281 \end{array}$	$\begin{array}{c c} 2,543 \\ 72 \\ 76 \\ 185 \end{array}$	3,365 85 63 395	23 24 25 26
73	56	73	105	367	423	286	500	3,643	3,371	2,876	3,908	27
7	4	7	8	28	33	31	32	71	102	45	44	28
470	500	520	480	1,818	1,729	1,457	1,597	12,126	11,168	9,989	10,759	29

Calculated Total World's Cotton Mill Stocks on 1st August, 1925, with to the International

[Figures in Italies are

		IN	THOUS.		F ACTU	AL BAL GHT)	ES (RE	GARDLI	ESS
			Амен	RICAN			East	Indian	
	Countries	I	HALF YEA	R ENDING	g.	F	HALF YEA	R ENDING	3
		July 31, 1925	Jan. 31, 1925	July 31, 1924	July 31, 1923	July 31, 1925	Jan. 31, 1925	July 31, 1924	July 31, 1923
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Europe: Great Britain France Germany Russia Italy Czecho-Slovakia Spain Belgium Switzerland Poland Austria Holland Sweden Portugal Finland Denmark Norway	131 130 124 82 140 44 18 29 17 11 13 20 16 4 4 3 3 2	132 126 125 64 111 50 23 26 18 17 14 20 17 5 3 2 2	83 85 65 56 91 28 8 16 11 7 9 12 16 6 4 4 2 1	104 88 58 26 90 18 32 17 11 12 7 10 11 6 2 3 3 1	31 53 51 - 91 27 7 39 4 4 11 10 - 1	9 22 20 - 32 9 4 15 2 1 4 3 1 - - - - - - - - - - - - - - - - - -	28 52 46 - 86 6 6 6 12 8 2 - - 8 32 - - - - - - - - - - - - -	29 50 32 - 57 10 3 28 3 6 6 11 8 2
18	Europe total .	787	755	500	496	329	122	313	239
19 20 21 22	Asia:	 $ \begin{array}{c c} & - \\ & 192 \\ & 27 \\ \hline & 219 \end{array} $	$ \begin{array}{c c} 3 \\ 170 \\ 28 \\ \hline 201 \end{array} $	1 158 14 173	$ \begin{array}{r} 5 \\ 160 \\ 20 \\ \hline 185 \end{array} $	578 551 127 1,256	399 165 32 596	731 486 44 1,261	717 570 88 1,375
23 24 25 26 27	America:	 787 31 - - 818	1,365 43 - - 1,408	636 14 - - 650	977 24 8 -	12 12	8 - - - 8	15	9 9
28	Sundries	9	1,408	1	1,009	2	12	1	_
29	Grand totals .	1,833	2,369	1,324	1,693	1,599	738	1,590	1,623

Previous Figures for Comparison on Basis of Spinners' Returns made Cotton Federation

previous half year's figures.]

			IN		SANDS CARDLESS			ALES				
	Egyp	TIAN			SUNI	ORIES			То	TAL		
I	HALF YEAR	R ENDING	7		HALF YEA	R ENDIN	G	H	IALF YEA	R ENDING	ì	
July 31, 1925	Jan. 31, 1925	July 31, 1924	July 31, 1923	July 31, 1925	Jan. 31, 1925	July 31, 1924	July 31, 1923	July 31, 1925	Jan. 31, 1925	July 31, 1924	July 31, 1923	
52 25 11 11 12 3 3 1 7 2 1	57 24 13 8 14 1 13 3 4 1 1- -	60 222 77 88 13 24 4 1 7 2 1 -	69 23 5 5 5 12 2 1 1 1 1 1 1 1 -	38 19 6 244 6 2 1 3 1 1 1 1 - - - - -	40 8 4 118 4 - - 1 1 - 4 - - - 4 - - - - - -	34 9 6 96 5 1 1 2 1 3 - - 6	35 11 5 42 2 1 1 1 3 1 1 - - - - - - - - - - - - - -	252 227 192 337 249 76 29 72 29 72 29 18 26 30 16 10 3 4 2	238 180 162 190 161 62 32 43 33 25 19 23 18 9	205 168 124 160 195 58 21 51 25 18 22 20 18 12 4 2	237 172 100 73 161 31 37 49 26 21 19 18 14 12 2 3 1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
128	141	127	133	328	184	164	108	1,572	1,202	1,104	976	18
16 -	1 17 —	1 21 -	1 21 -	5 24 132	$\begin{array}{c} 14 \\ 74 \\ 227 \end{array}$	$\begin{array}{c} 4 \\ 40 \\ 124 \end{array}$	10 30 103	583 783 286	$417 \\ 426 \\ 287$	737 705 182	733 781 211	$19 \\ 20 \\ 21$
16	18	22	22	161	315	168	143	1,652	1,130	1,624	1,725	22
34 - - -	35 - - -	34	60 1 1 -	20 - 40 97	12 - 32 99	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	24 - 22 74	853 31 40 97	1,420 43 32 99	706 14 7 99	$\begin{bmatrix} 1,070 \\ 25 \\ 31 \\ 74 \end{bmatrix}$	23 24 25 26
34	35	34	62	157	143	127	120	1,021	1,594	826	1,200	27
3	3	5	3	8	13	8	25	22	33	15	31	28
181	197	188	220	654	655	467	396	4,267	3,959	3,569	3,932	29

Calculated Total World's Cotton Spinning Spindles (000's 1925, on Basis of Returns made to the

			Total Estim. of Spinnin	ATED NUMBER G SPINDLES	Mule 8	SPINDLES
	COUNTRIES		HALF YEA	R ENDING	HALF YEA	R ENDING
			July 31, 1925	Jan. 31, 1925	July 31, 1925	Jan. 31, 1925
	Europe:					
1	Great Britain		57,116	56,710	43.651	43,621
2	France		9,428	9.374	3.893	4.034
3	Germany		9,500	9,500	4,373	4,373
$\ddot{4}$	Russia .		7.246^{1}	7,246	2,898	2,898
5	Italy	,	4,771	4,635	814	1,201
6	Czecho-Slovakia					
			3,471	3,459	1,806	1,799
7	Spain		1,813	1,813	621	621
8	Belgium		1,788	1,764	468	458
9	Switzerland		1,517	1,528	804	823
10	Poland		1,172	1,146	359	514
11	Austria		1,038	1.051	457	451
12	Holland		817	727	203	203
$\overline{13}$	Sweden	•	555	564	94	96
14	Portugal		503	503	173	173
15	Finland		253	$\frac{303}{253}$	58	
		•				58
16	Denmark		78	79	8	6
17	Norway		58	69	13	17
18	Total		101,124	100,421	60,693	61,346
	Asia:					
19	India		8,500	8,313	1,139	1,040
20	Japan		5,292	5.110	26	26
21	China		3,350	3,350	_	_
22	Total		17,142	16,773	1,165	1,066
	America:		1			
23	U. S. A		37,937	37.886	2,588	8,588
24	Canada		1,319	1,156	265	330
$\overline{25}$	Mexico	•	814	805	5	_
$\frac{26}{26}$	Brazil		1,950	1,720	_	_
27	Total		42,020	41,567	2,858	2,918
28	Sundries		1,077	1,143	108	132
29	Grand totals .		161,363	159,904	64,824	65,462

¹ Russia: Of these only 4,203,056 are being worked.

² Approximate.

omitted) for the Half Years July 31st, 1925, and January 31st, International Cotton Federation's Statistics

	n Course ection	Spindles 1 of Eri	SPINNING COTTON	Spindles Egyptian	PINDLES	Ring Si
	R ENDING	HALF YEA	R ENDING	HALF YEA	R ENDING	HALF YEAR
	Jan. 31, 1925	July 31, 1925	Jan. 31, 1925	July 31, 1925	Jan. 31, 1925	July 31, 1925
1 2 3 4 5 6 7 8	532	308	19,529	18,438	13,089	13,465
2	66	64	2,200	2,200	5,340	5,535
- 3	80	169	1,051	1,029	5,127	5,127
4	-	_	270	300	4,348	4,348
- 5	171	109	602	432	3,434	3,957
- 6	29	56	417	417	1,660	1,665
7	_	_	155	155	1,192	1,192
Š	23	37	7	21	1,306	1,320
9	9	2	766	691	705	713
10	10	13	187	98	632	813
11	7	7	51	67	600	581
12	52	40	-		524	614
13	7	6	6	$\frac{-}{7}$	468	461
14		8	10	ó	330	330
15	_	9	9	$\frac{9}{7}$	195	195
16	14	15	-		73	$\frac{159}{70}$
17	-	-	_	_	52	45
18	1,000	834	25,260	23,871	39,075	40,431
19	158	100	143	13	7,273	7,361
20	157	165	506	433	5,084	5,266
21	13	14		_	3,350	3,350
22	328	279	649	446	15,707	15,977
23	?	?	2,000 2	2,000	35,298	35,349
24	-	_	-	30	826	1,054
25	30	_	25	10	805	809
-26	74	244		3	1,720	1,950
27	104	244	$2,025^{\ 2}$	2,043	38,649	39,162
28	23	9	40	103	1,011	969
29	1,455 3	1,366 3	27,974	26,463	94,442	96,539

³ This figure does not include American spindles, particulars of which are not supplied by the Bureau of the Census.

Exports of Cotton from Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

			192	2-23	195	23-24	19	24-25
WEEK EN	DING —	-	Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept.
September	7		57,112	57,112	51,895	35,277	83,477	19,402
	14		23,116	80,228	64,165	99,442	43,769	63,171
	21		92,015	172,243	72,758	172,200	73,055	136,226
	28		65,662	237,905	86,338	258,538	124,834	261,060
October	5		106,965	344,870	-151,956	410,494	176,237	437,297
	12		84,713	429,583	144,080	554,574	98,703	536,000
	19		131,727	561,310	141,166	695,740	172,515	708,515
	26		238,120	799,430	166,872	862,612	168,890	877,405
November	2		151,022	950,452	205,563	1,068,175	212,525	1,089,930
	9		277,667	1,228,119	191,781	1,259,956	351,236	1,441,166
	16		207,299	1,435,418	323,468	1,583,424	258,117	1,699,283
	23		302,919	1,738,337	251,572	1,834,996	273,114	11.972.397
	30		346,760	2,085,097	407,557	2,242,553	250,343	2,222,740
December	7		199,501	2,284,598	463,759	2,706,312	371,226	2,593,966
	14		402,799	2,687,397	251,309	2,957,621	303,786	2,897,752
	21		205,119	2,892,516	210,289	3,167,910	283,692	3,181,444
	28		227,487	3,120,003	251,560	3,419,470	239,206	3,420,650
January	-4	·	167,911	3,287,914	95,990	3,515,460	299,585	3,720,235
, and and	11	Ċ	229,983	3,517,897	209,608	3,725,068	259,454	3,979,689
	18		200,182	3,718,079	258,276	3,983,344	98,387	4,078,076
	25	•	257,185	3,975,264	206,750	4,190,094	169,627	4,247,703
February	$\frac{1}{2}$		221,590	4,196,854	180,737	4,370,831	231,569	4,479,272
i obi daij	$\bar{9}$		200,602	4,397,456	134,924	4,505,755	204,385	4,683,657
	$1\check{6}$		176,907	4,574,363	139,545	4,645,300	132,757	4,816,414
	23		187,891	4,762,254	147,163	4,792,463	173,569	4,989,983
March	$\frac{2}{2}$		135,216	4,897,470	159,752	4,952,215	184,006	5,173,989
viai on	$\bar{9}$		195,465	5,092,935	82,011	5,034,226	198,411	5,372,400
	16	·	173,893	5,266,828	195,497	5,229,723	120,606	5,493,006
	$\tilde{23}$	Ĭ.	123,794	5,390,622	59,273	5,288,996	120,122	5,595,128
	30		110,862	5,501,484	37,547	5,326,543	90,773	5,685,901
April	6		122,495	5,623,979	130,386	5,456,929	200,296	5,886,197
	13	·	166,921	5,790,900	100,921	5,557,850	43,111	5,929,308
	$\tilde{20}$	Ĭ.	83,469	5,874,369	91,472	5,649,322	52,237	5,981,545
	$\overline{27}$	Ċ	126,448	6,000,817	101,642	5,750,964	63,306	6,044,851
May	4	Ċ	63,912	6,064,729	70,719	5,821,683	73,192	6,118,042
2,243	1Î		109,954	6,174,683	70,902	5,892,585	102,105	6,220,147
	18	Ţ.	36,973	6,211,656	162,375	6,054,960	105,409	6,325,556
	$\widetilde{25}$	Ċ	93,758	6,305,414	102,262	$\mid 6,157,222 \mid \mid$	39,964	6,365,520
June	1	·	73,836	6,379,250	84,455	6,241,677	70,105	6,435,625
dire	\hat{s}		57,884	6,437,134	58,791	6,300,468	34,649	6,470,274
	15	•	80,070	6,517,204	98,279	6,398,747	69,741	6,540,015
	$\frac{10}{22}$	•	42,449	6,559,653	76,974	6,475,721	67,176	6,607,191
	$\frac{1}{29}$	·	72,252	6,631,905	65,876	6,541,597	42,233	6,649,424
July	6	•	80,403	6,712,308	55,906	6,597,503	76,204	6,725,628
, 413	$1\ddot{3}$	•	68,981	6,781,289	65,570	6,663,073	26,417	6,752,045
	20	•	53,977	6,835,266	21,796	6,684,869	49,477	6,801,522
	$\frac{20}{27}$		31,554	6,866,820	82,621	6,767,490	31,943	6,833,465
August	3	•	79,021	6,945,841	34,330	6,801,820	56,440	6,889,905
Lugunu	10	•	69,894	7,015,735	45,410	6,847,230	45,768	6,935,673
	17	•	49,542	7,065,277	40,042	6,887,272	36,960	6,972,633
	$\frac{17}{24}$	•	55,901	7,121,178	31,065	6,918,337	41.420	7,014,053
	$\frac{24}{31}$ 1	•	32,798	7,153,976	37,977	6,956,314	22,308	7,036,361
	01.		92,190	1,100,010	01,011	5,000,014	,000	1,000,001

¹ Adjusted total.

Receipts of Cotton at Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

			19	22-23	192	23-24	19	24-25
WEEK EN	DING -	-	Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept. 1
September	7		27,913	32,454	50,552	50,552	69,462	40,661
-cpremiser	14		26,627	59,081	61,630	112,182	129,210	169,871
	$\overline{21}$	Ċ	45,919	105,000	95,596	207,778	174,915	344,786
	$\overline{28}$		160,992	265,992	196,006	403,784	284,458	629,244
October	5		225,109	491,101	226,326	630,110	301,813	931,057
000000	12		305,517	796,618	292,585	922,695	235,717	1,166,774
	$\overline{19}$		363,697	1,160,315	328,208	1,250,903	363,642	1,530,416
	$\overline{26}$		366,646	1,526,961	335,292	1,586,195	303,779	1,834,195
November	2		386,519	1,913,480	381,661	1,967,856	448,536	2,282,731
	9		375,873	2,289,353	330,786	2,298,642	399,991	2,682,722
	16		440,076	2,729,429	439,141	2,737,783	366,715	3,049,437
	23		358,763	3,088,192	471,608	3,209,391	428,384	3,477,821
	30		338,455	3,426,647	419,846	3,629,237	386,398	3,864,219
December	7		294,977	3,721,624	317,478	3,946,715	383,041	4,247,260
25000111002	14		228,149	3,949,773	308,320	4,255,035	350,926	4,598,186
	$2\overline{1}$		196,444	4,146,217	288,173	4,543,208	356,701	4,954,887
	$\overline{28}$		216,331	4,362,548	220,854	4,764,062	257,579	5,212,466
January	4		171,688	4,534,236	199,028	4,963,090	211,828	5,424,294
o arrang	11	Ċ	163,179	4,697,415	$145,\!276$	5,108,366	215,125	5,639,419
	$\tilde{18}$		164,174	4,861,589	74,456	5,182,822	152,361	5,791,780
	$\overline{25}$		161,325	5,022,914	119,578	5,302,400	168,658	5,960,438
February	$\tilde{2}$	•	145,873	5,168,787	106,070	5,408,470	150,504	6,110,942
rebraary	$\bar{9}$	•	117,890	5,286,677	106,118	5,514,588	109.961	6,220,633
	16	•	156,241	5,442,918	110,250	5,624,838	84,922	6,305,555
	$\overline{23}$	Ċ	173,610	5,616,528	130,810	5,755,648	121,721	6,427,276
March	$\frac{1}{2}$:	135,144	5,751,672	83,221	5,838,869	100,744	6,528,020
2.201011	9	:	128,402	5,880,074	70,500	5,909,369	75,729	6,603,749
	16		112,314	5,992,388	42,852	5,952,221	73,067	6,676,816
	$\hat{23}$	•	67,367	6,059,755	44,779	5,997,000	63,779	6,740,595
	30	•	65,657	6,125,412	32,648	6,029,648	53,750	6,794,345
April	6		95,721	6,221,133	27,108	6,056,756	74,196	6,868,511
	$1\overline{3}$	•	49,366	6,270,499	40,141	6,096,897	36,292	6,904,833
	$\frac{10}{20}$	•	62,228	6,332,727	46,052	6,142,949	22,934	6,927,767
	$\tilde{27}$:	59,909	6,392,636	44,431	6,187,380	15,732	6,943,499
May	4	•	111,368	6,504,004	42,991	6,230,371	5,774	6,949,273
2,244	11	•	56,319	6,560,323	28,652	6,259,023	9,406	6,958,678
	18	•	13,616	6,573,939	22,876	6,281,899	9,425	6,968,104
	$\overline{25}$		13,413	6,587,352	27,354	6,309,253	8,532	6,976,636
June	1	•	3,904	6,591,256	21,726	6,330,979	12,710	6,989,346
o di i c	ŝ	•	5,764	6,597,020	30,111	6,361,090	21,419	7,010,765
	15	•	2,804	6,599,824	9,229	6,370,319	20,626	7,031,391
	$\frac{10}{22}$		8,405	6,608,229	2,378	6,372,697	4,671	7,036,062
	$\frac{52}{29}$	•	5,331	6,613,560	112	6,372,809	541	7,036,603
July	6	•	6,388	6,619,948	$2,\!220$	6,375,029	1,069	7,037,672
odry	13	•	7,831	$ \begin{array}{c} 6,627,779 \\ 6,627,779 \end{array} $	1,969	6,376,998	1,000	7,037,672
	$\frac{10}{20}$:	2.098	6,629,877	661	6,377,659	1,140	7,058,812
	$\frac{20}{27}$	•	475	6,630,352	4,073	6,381,732	111	7,038,923
August	3		3,523	6,633,875	1,180	6,382,912	1,855	7,040,778
	10	•	1,579	6,635,454	445	6,383,357	338	7,041,116
	17	•	1,742	6,637,195	$2,\!270$	6,385,627	898	7,042,014
	$\frac{1}{24}$	•	6,718	6,643,914	10,039	6,395,666	6,285	7,048,299
	311	•	15,764	6,659,678	43,451	6,439,117	22,614	7,070,913
	0.1		10,101	1 3,000,010	10,101	0,200,111		1 . , ,

¹ Adjusted total.

Stock of Cotton at Alexandria, Egypt

[In cantars of 99.049 pounds each] Source: Alexandria General Produce Association

WEEK ENDI	NG —	1919-20	1920-21	1921-22	1922-23	1923-24	1924-25
September	7	416,170	410,834	1,752,288	1,369,946	818,275	281,25
epiemoei	14	429,121	439,279	1,783,372	1,310,853	815,740	
	21	392,148	484,923				366,70
				1,699,479	1,264,757	838,578	468,56
0 / 1	28	543,640	536,996	1,706,181	1,360,087	948,246	628,18
October	5	734,951	618,530	1,690,188	1,478,231	1,022,616	753,76
	12	944,857	738,784	1,850,409	1,699,035	$1,\!171,\!121$	= 890,77
	19	1,125,446	846,268	1,997,173	[-1,931,005]	1,358,163	-1,081,90
	26	1,202,826	936,360	2,139,264	[2,059,531]	1,526,583	1,216,79
${ m November}$	-2	1,327,932	963,525	2,262,407	2,295,028	1,702,681	1,452.80
	9	1,390,592	1,056,714	2,187,983	2,393,234	1,841,686	1,501,55
	16	1,484,894	1,186.799	2,247,865	2,626,011	1,957,359	1,610,15
	23	1,491,481	1,302,608	2,320,074	2,681,855	2,177,395	1,765,42
	30	1,504,016	1,365,353	2,423,389	2,673,550	2,189,684	
December	7	1,751,843	1,357,205	2,447,501			1,901,47
December					2,769,026	2,043,403	1,913,29
	14	1,740,085	1,352,749	2,305,446	2,594,376	2,100,414	1,960,43
	21	1,790,408	1,398,337	2,369,408	2,585,701	2,178,298	2,033,44
	28	1,756,071	1,435,382	2,451,920	2,574,545	2,147,592	$ \ 2,\!051,\!81$
January	4	$[-1,\!808,\!319]$	1,468,932	2,528,739	$ \ 2,578,322$	$ \ 2,\!250,\!630 $	[-1,964,05]
	11	1,729,456	1,504,476	2,538,750	2,511,518	2,186,298	1,919,73
	18	1,596,662	1,550,687	2,503,822	2,475,510	2,002,478	1,973,70
	25	1,532,183	1,605,751	2,510,528	2,379,650	1,915,306	1,972,73
February	$\overline{2}$	1,386,871	1,608,863	2,488,658	2,303,933	1,840,639	1,891,67
i cordary	$\bar{9}$	1,332,049	1,667,302	2,400,635	2,221,221	1,811,833	1,796,97
	16	1,215,424	1,714,975	2,357,626	2,200,555		
						1,782,538	1,749,14
N T 1.	$\frac{23}{2}$	1,154,054	1,777,663	2,351,900	2,186,274	1,766,185	1,697,29
March	2	1,071,368	1,812,806	2,343,107	2,186,202	1,689,654	1,614,03
	9	1,068,026	1,758,721	2,293,889	2,119,139	1,678,143	1,491,34
	16	1,048,168	1,755,203	2,270,773	2,057,560	1,525,498	[-1,443,81]
	23	999,363	1,755,985	2,301,435	2,001,133	1,511,004	1,405,46
	30	974,473	1,637,577	2,269,392	1,955,928	1,506,105	1,368,44
April	6	953,775	1,720,170	2,257,656	1,929,154	1,402,827	1,242,34
•	13	942,706	1,765,910	2,265,683	1,811,599	1,342,047	1,235,52
	20	914,838	1,819,519	2,261,160	1,790,358	1,296,627	1,206,22
	$\overline{27}$	890,083	1,854,747	2,195,380	1,723,819	1,239,416	1,158,64
May	4	876,605	1,893,427	2,209,913	1,771,275	1,211,688	1,091,23
May	11						
		847,922	1,906,099	2,197,814	1,717,640	1,169,438	998,53
	18	824,051	1,985,836	2,181,152	1,694,283	1,029,939	902,54
T	25	810,250	2,019,368	2,080,304	1,613,938	955,031	871,11
June	1	788,693	1,994,712	$ \ 2,012,516 $	1,544,006	892,032	813,72
	8	739,212	2,077,213	1,926,073	1,491,886	863,622	800,49
	15	724,981	1,960,186	1,925.655	1,414,620	774,572	751,37
	22	710,472	1,989,612	1,883,481	1,380,576	699,976	688,87
	29	666,600	2,008,522	1,856,945	1,313,655	634,212	647,17
July	-6	646,668	2,024,276	1,820,361	1,239,640	580,526	572,0
, 41.5	13	623,878	2,015,763	1,772,838	1,178,490	516,925	545,63
	$\frac{10}{20}$	624,837	2,005.346	1,772,838	1,126,611	495,290	497,29
	$\frac{20}{27}$						
A		601,342	1,991,954	1,668,648	1,095,532	417,242	465,43
August	3	559,740	1,978,955	1,650,501	1,020,034	384,092	410,87
	10	545,730	1,978,387	1,560,444	951,719	339,127	365,4
	17	531,718	1,960,995	1,524,801	903,919	301,355	329,38
	24	519,371	1,947,707	1,464,301	854,736	280,329	294,2-
	31	520,544	1,967,498	1,399,145	837,702	285,803	294,53

Egyptian Cotton Exports, by Countries of Destination, during Egyptian Cotton Season, from September 1 to August 31

[In running Egyptian bales]

Source: Alexandria General Produce Association

	1914-15	1915-16	1916-17	1917-18	1918-19	1919-20	1920-21	1921-22	1922-23	1923 24	1924-25
Austria	ı	J	I	ı	ı	ı	ı	ı	1	1	ı
Belgium	ı	1	1	1		812	2,331	4,235	7,108	7,639	3.299
England	379,451	355,669	346,196	503,597	459,774	345,878	203,202	353,275	Ċ	-	424.953
France	27,107	45,812	28,063	44,560	78,487	50,089	40,206	83,198			126,464
Germany	1	ı	1	Ī	ĺ	5,874	X.555.X	16,582			14.377
Greece and Turkey .	2,516	0+	143	4,891	2,605	950	2,676	2,9301		2,4881	3,2861
Holland	í	1	ı	I	1	1,841	2,680	3,443		-	9,799
India and China .	475	185	ı	ı	I	ı	2,000	1,260			134
Italy	167,701	52,516	54,726	50,140	49,328	52,111	77,775	552,06			160,710
Japan	18,169	25,801	20,682	18,218	22,160	14,256	18,686	19,753		26,356	33.0<0
Portugal	992	801	929	j	250	695	763	0550			86
Russia	. 7,528	42,619	32,446	1	1	1	1	ı			1
Spain	23,204	20,332	12,534	16,911	10,436	8,805	14,671	19,399	29,557	27.508	19,608
United States	174,382	184,544	134,891	75,865	95,262	256,555	51,130	168,136	211,417		135,200
Other countries .	31,442	i	I	ı	10	15	527	410	1,616		2,530
Total	832,731	728,319	630,610	714,182	718,309	737,857	445,415	763,528	945,328	927,328	934,563
		_		_							

1 Greece and Syria.

Nore. — This table shows only the destination of the cotton as given when the cotton was shipped from Egypt. Some of the cotton was reshipped from these countries of initial destination and was finally consumed in other countries; for example, some of the cotton reported here as taken by Great Britain was reshipped by the latter to the United States.

Great Britain Raw Cotton Trade and Distribution

[000's omitted]

Source: Liverpool Cotton Association

				Imports				Exports	Consu	Consumption	STOCK OF NE	STOCK AT END OF NEASON	
YEAR	American	Brazilian	Egyptian, Peruvian etc.	Peruvian, ete.	East Indian	Total	Average Weight of Bales	Total	Total	Average Weight of Bales	Liverpool	Great Britain	YEAR
	1,238	85	38	25	216	1,599	365	120	1,251	367	366	584	1840
_	1,184	172	7.0	9	308	1,749	395	272	1,514	388	455	622	1850
0981	2,581	103	109	10	563	3,366	454	809	2,523	459	246	767	1860
870	1,664	403	220	112	1,063	3,462	380	658	2,797	386	379	547	1870
088	2,634	123	240	33	570	3,640	434	531	3,068	444	478	681	1880
0681	2,918	150	272	98	604	4,010	467	477	3,500	475	910	1,179	1890
5	3,028	39	389	55	128	3,639	506	375	3,101	506	386	506	1900-01
1910-11	3,399	125	603	127	252	4,506	503	557	3,797	498	405	724	1910-11
-12	4,305	78	290	151	106	5,230	202	643	4,261	503	595	1,087	1911-12
1912-13	3,615	202	591	193	136	4,737	206	527	4,345	501	572	1 66	1912-13
1-1-	3,507	286	570	546	264	4,876	495	437	4,231	491	988	1,225	1913-14
-15	4,048	40	559	506	277	5,130	504	605	3,890	496	1,462	1,815	1914 - 15
-16	2,698	10	557	197	154	3,611	513	404	3,971	497	#5	396	1915-16
-17	2,646	17	445	191	96	3,392	512	204	3,567	505	268	585	1916-17
-18	2,276	25	484	143	211	3,139	512	ಣ	2,960	506	152	760	1917-18
-19	2,490	13	414	165	84	3,166	510	13	2,929	521	629	900	1918-19
1919-20	3,268	79	623	292	200	4,462	507	61-1	3,434	503	1,015	1,479	1919-20
15-0561	1,716	15	252	226	93	2,305	505	291	2,080	513	1,085	1,474	1920-21
1921-22	1,811	111	417	309	62	2,710	506	224	2,835	497	787	1,163	1921-22
1922-23	1,335	68	496	599	243	2,462	20s	194	2,746	496	300	683	1922-23
1923-24	1,682	58	481	421	326	2,968	200	249	2,741	499	414	651	1923-24
924-25	2,567	51	462	469	196	3,745	491	236	3,280	491	570	888	1924-25

Nore. — Through 1890, the import, export, and consumption figures were for year ending December 31; from 1900-01 through 1913-14 the figures are for year ending August 31; commencing with 1914-15 the figures are for year ending July 31.

Indian Exports of Cotton

[Bales of 478 pounds net]
[Fiscal years ending March 31]
Source: Bureau of Foroign and Domestic Commerce

Country of Dest	INAT	ION	1920-21	1921-22	1922-23	1923-24	1924-25
United Kingdom			80,234	29,905	159,733	241,418	129,994
Germany .			168,288	196,176	219,866	201,774	135,661
Netherlands .			9,875	4,483	8,036	24,420	303,930
Belgium			203,669	165,723	210,651	216,988	161,775
France			32,138	47,371	105,566	145,801	107,680
Spain			63,999	25,209	53,878	73,130	77,162
Italy			177,915	129,028	201,680	460,507	389,601
Austria			28,5391	27,977	35,545	35,091	6,241
Cevlon			3,206	2,265	4,334	5,331	3,433
Indo-China .			7,582	24,687	16,628	22,244	21,699
China			160,744	363,907	415,600	225,571	228,249
Japan			784,747	1,471,078	1,354,496	1,436,451	1,545,547
United States			7,839	7,671	18,243	35,985	26,415
All other			6,692	2,710	4,404	5,677	11,079
Total .			1,735,467	2,498,190	2,808,660	3,130,388	2,874,834

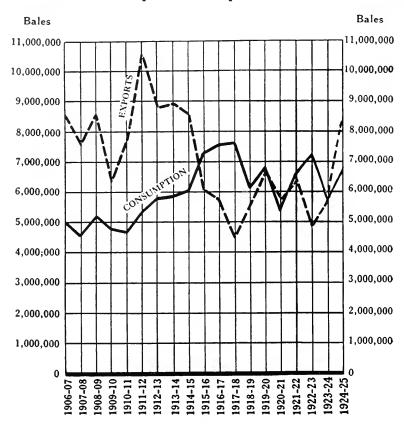
¹ Austria-Hungary.

Brazilian Exports of Raw Cotton

[Bales of 478 pounds net]
Source: Bureau of Foreign and Domestic Commerce

Country of Destina	ATION	Average, 1909-13	1913	1921	1922	1923
Great Britain .		63,646	132,120	45,708	78,154	52,267
France		2,771	8,436	13,386	26,464	8,661
Italy		-,6	-	1,301	-	-
Netherlands		883	3,716	_	_	_
Belgium	.	1,331	1,536	1,138	_	-
Germany	.	2,332	4,340	6,900	_	_
Austria-Hungary .	.	204	159	· -	-	_
Portugal		7,517	14,157	14,499	26,619	20,312
Spain		491	_	_	_	-
Russia (in Europe)		49	207	_	-	_
United States .		73	367	3,485	5,310	5
Argentina	. [46	- 1	-	-	-
Uruguay		7	- 1	-	-	-
All others		-	-	48	13,159	3,295
Total		79,356	165,038	86,465	149,706	84,540

United States Consumption and Exports of Cotton and Linters



The above chart is based on the table on the following page.

United States Production, Consumption, and Exports of Cotton and Linters

The statistics below are in running bales except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. The years as given are the official cotton seasons. Through 1913–14 the seasons were from September 1 to August 31. Starting with 1914–15, they have been from August 1 to July 31.

Source: United States Bureau of the Census

	Cc	TTON	SEA	SON		Production	Consumption	Exports
1906-07						13,097,992	4,984,936	8,503,26/
1907-08						11,527,833	4,539,090	7,573,349
1908-09						13,418,144	5,240,719	8,574,02-
1909-10						10,350,978	4,798,953	6,339,028
1910-11						12,384,248	4,704,978	7,781,41-
1911-12						16,068,936	5,367,583	10,681,758
1912-13						14,159,078	5,786,330	8,800,966
1913-14						14,290,320	5,884,733	8,914,839
1914-15						16,738,241	6,009,207	8,544,563
1915-16						12,012,813	7,278,529	6,191,110
1916-17						12,664,078	7,658,207	5,739,009
1917-18						12,344,664	7,685,329	4,476,12
1918-19						12,816,716	6,223,837	5,663,926
1919-20						11,920,625	6,762,207	6,598,34
1920-21						13,699,975	5,408,979	5,796,10
1921-22						8,360,153	6,548,853	6,316,12
922-23						10,319,843	7,312,201	4,864,02
923-24						10,810,234	6,217,292	5,772,000
924 - 25						 14,497,361	6,852,265	8,195,876

United States Consumption of Cotton and Linters

[American cotton and linters in running bales. Foreign cotton in equivalent 500-pound bales]

Souree: United States Bureau of the Census

į	Period	Ω.				Total Cotton (including Linters)	Total Cotton (exeluding Linters)	American Cotton (excluding Linters)	Linters	Foreign Cotton	Egyptian	Sea Island	American Egyptian
July, 1925		-				546,412	483,898	459,976	62,513	23,922	17,865	338	838
June, 1925						554,342	493,765	469,751	60,577	24,014	17,824	202	1.108
May, 1925		٠				592,658	531,471	508,418	61,187	23,053	16,893	303	1,202
April, 1925		٠			٠	656,140	597,104	571,656	59,036	25,448	18,532	345	1,329
March, 1925						641,519	582,674	557,954	58,845	24,720	17,965	560	1,532
February, 1925		٠		٠	٠	600,730	550,132	525,593	50,598	24,539	17,69S	334	2,252
January, 1925		٠	٠			641,525	589,725	564,078	51,800	25,647	18,662	378	2,163
December, 1924						578,229	532,047	509,072	46,182	22,975	16,491	339	1,297
November, 1924		٠				543,193	492,233	474,933	50,960	17,300	10,129	213	1,400
October, 1924 .			-			587,725	532,629	509,557	55,095	23,072	13,979	375	2,260
September, 1924						485,192	435,216	413,539	19,976	21,677	13,527	167	2,262
August, 1924 .						401,751	357,455	339,556	44,296	17,899	11,268	419	2,855
Season ending —	1												
July 31, 1925						6,842,414	6,191,349	1	651,065	274,390	190,833	3,968	19,252
July 31, 1924		•				6,206,265	5,669,527	5,132,789	536,738	310,774	217,913	1,907	35,648
July 31, 1923		٠	٠	,		7,312,201	-6,666,092	6,322,294	646,109	343,798	262,331	6,267	65,235
July 31, 1922		٠	•			6,548,853	5,909,820	5,612,993	639,033	296,827	226,330	8,967	49,359
July 31, 1921		٠		٠		5,408,979	4,892,672	1,676,891	516,307	215,781	159,196	18,667	16,771
July 31, 1920		٠	٠	٠		6,762,207	6,419,734	6,002,993	342,473	416,741	323,124	12,971	45,867
July 31, 1919		٠				6,223,837	5,765,936	5,589,820	457,901	176,116	126,087	51,183	Э
July 31, 1918.				٠		7,685,329	6,566,489	-6,382,695	1,118,840	183,794	136,401	85,939	19
July 31, 1917		•	٠		٠	7,658,207	6,788,505	6,470,244	869,702	318,261	259,160	162,16	eli
July 31, 1916 .		٠	٠	٠	•	7,278,529	6,397,613	6,080,618	880,916	316,995	269,324	82,645	i C
July 31, 1915						6,009,207	5,597,362	5,375,305	411,845	222,057	181,211	79,394	37
August 31, 1914						5,884,733	5,577,408	5,383,099	307,325	194,309	151,091	81,673	te
August 31, 1913						5,786,330	5,483,321	5,250,392	303,009	232,029	201,269	54,778	'n
August 31, 1912		٠				5,367,583	5,129,346	4,921,683	238,237	207,663	180,465	94,856	

United States Cotton Consumption, by States 1

[In running bales, exclusive of linters]

Source: United States Bureau of the Census

	1919-20	1920-21	1921-22	1922-23	1923-24	1924-25
New England States:						
Maine	194,431	153,165	162,142	182,184	148,836	146,379
New Hampshire	294,289	220,241	175,983	235,377	191,816	205,326
Vermont	12,902	10,103	12,470	12,087	9,550	10,129
Massachusetts .	1,454,325	922,482	1,140,459	1,231,300	869,695	950,942
Rhode Island .	305,240	212,199	215,996	264,132	217,971	230,035
Connecticut .	135,939	95,407	115,631	124,500	96,909	95,963
Total New England						
States	2,397,126	1,613,597	1,822,681	2,049,580	1,534,777	1,636,774
Other non-cotton- growing States:						
New York	233,729	130,793	197,930	201,270	144,017	164,610
New Jersey .	37,075	31,364	38,365	41,866	39,088	62,132
Pennsylvania .	41,739	24,429	29,747	30,876	30,892	30,687
Maryland	66,364	41,317	41,158	44,799	31,833	37,150
Indiana	14,472	14,212	15,936	15,683	15,711	15,157
Illinois	13,006	10,754	12,418	12,451	13,165	11,783
Others	33,304	28,735	21,808	21,619	12,754	10,762
Total other non-cot-			_			
ton-growing States	439,689	281,604	357,362	368,764	287,460	332,281
Cotton-growing States:						
Virginia	112,747	105,352	116,530	121,272	105,775	110,883
North Carolina .	1,149,241	926,384	1,198,163	1,326,174	1,199,859	1,334,794
South Carolina .	843,924	771,560	918,725	1,035,557	947,964	1,029,797
Georgia	800,901	614,079	781,870	974,662	864,328	966,324
Alabama	367,468	309,646	377,548	414,880	392,705	430,051
Mississippi	36,425	31,208	40,463	46,117	34,751	32,201
Tennessee	108,373	74,689	107,731	123,052	120,053	115,202
Kentucky	19,093	21,303	22,353	23,915	22,362	21,284
Louisiana	39,543	39,327	40,704	45,135	35,097	33,566
Texas	64,333	62,617	76,606	83,221	79,627	93,494
Others	40,871	41,306	49,084	53,763	55,796	56,766
Total cotton-grow-						
ing States	3,582,919	2,997,471	3,729,777	4,247,748	3,858,317	4,224,362
Total United States	6,419,734	4,892,672	5,909,820	6,666,092	5,680,554	6,193,417

¹ Statistics here given are for years ending July 31.

United States Cotton Production, Consumption, and Active Cotton Spindles

[Running bales, except those for production in 1850, 1860, and 1870, which are in equivalent 400-pound bales, and those for consumption from 1840 to 1870, and for foreign cotton, which are in equivalent 500-pound bales. Linters are included

Source: United States Bureau of the Census

		Сот	TON CONSU	MED (BAL	ES)	Ac	TIVE COTT	ON SPINDLE	s
YEAR	Cotton produced (Bales) ¹	United States	Cotton- growing States	New England States	All Other States	United States	Cotton- growing States	New England States	All Other States
1925	14,497,361	6,852,265	4,450,956	1,675,234	717,105	35,032,246	17,292,042	15,975,442	1,764,762
1924	10,810,234	6,217,292	4,050,844	1,566,784	599,664	35,849,338	16,944,178	17,066,036	1,839,124
1923	10,319,843	7,312,201	4,159,150	1,866,495	956,556	36,260,091	16,310,360	18,053,716	1,895 925
1922	8,360,153	6,548,853	3,977,847	1,853,153	717,853	35,707,738	15,906,165	17,938,805	1,862,768
1921	13,699,975	5,408,979	3,151,954	1,644,834	612,191	36,047,367	15,708,988	18,387,789	1,950,590
1920	11,920,625	6,762,207	3,714,403	2,418,828	628,976	35,480,953	15,230,983	18,287,424	1,962,546
1919	12,816,716	6,223,837	3,491,008	2,231,574	501,255	34,930,934	14,846,239	18,065,857	2,018,838
1918	12,344,664	7,685,329	4,414,052	2,612,934	628,343	34,542,665	14,529,063	17,984,720	2,028,882
1917	12,664,078	7,658,207	4,335,007	2,654,138	669,062	33,888,835	14,155,758	17,760,968	1,972,109
1916	12,012,813	7,278,529	3,977,130	2,627,150	674,249	32,805,883	13,382,065	17,474,264	1,949,554
1915	16,738,241	6,009,207	3,193,353	2,197,220	618,634	31,964,235	12,955,712	17,100,615	1,907,908
1914	14,613,964	5,884,733	3,023,415	2,251,041	610,277	32,107,572	12,711 303	17,408,372	1,987,897
1913	14,090,863	5,786,830	2,960,518	2,210,813	614,999	31,519,766	12,227,226	17,311,451	1,981,089
1912	16,109,349	5,367,583	2,712,223	2,108,360	547,000	30,578,528	11,582,869	17,139,945	1,855,714
1911	11,965,962	4,704,978	2,328,487	1,911,092	465,399	29,522,597	11,084,623	16,510,981	1,926,993
1910	10,386,209	4,798,953	2,292,333	2,016,386	490,234	28,266,862	10,494,112	15,735,086	2,037,664
1909	13,432,131	5,240,719	2,553,797	2,144,448	542,474	28,018,305	10,429,200	15,591,851	1,997,254
1908	11,325,882	4,539,090	2,187,096	1,894,835	457,159	27,505,422	10,200,903	15,329,333	1,975,186
1907	13,305,265	4,984,936	2,410,993	2,073,355	500,588	26,375,191	9,527,964	14,912,517	1,934,710
1906	10,725,602	4,909,279	2,373,577	2,059,900	475,802	25,250,096	8,994,868	14,407,580	1,847,648
1905	13, (97, 310	4,278,9802	2,140,151	1,753,2822	385,547	23,687,495	7,631,331	14,202,971	1,833,193
1900	9,507,786	3,873,165	1,523,168	1,909,498	440,499	19,472,232	4,367,688	13,171,377	1,533,167
1890	7,472,511	2,518,409	538,895	1,502,177	477,337	14,384,180	1,570,288	10,934,197	1,879,595
1880	5,755,359	1,570,344	188,7483	1,129,498	252,0983	10,653,4353	561,3603	8,632,0873	1,459,988
1870	3,011,996	796,616	68,702	551,250	176,664	7,132,415	327,871	5,498,308	1,306,236
1860	5,387,052	845,410	93,553	567,403	184,454	5,235,727	324,052	3,858,962	1,052,713
1850	2,469,093	575,506	78,140	430,603	66,763	3,998,022	264,571	2,958,536	774,915
1840	2,063,915	236,525	71,000	158,708	6,817	2,284,631	180,927	1,597,394	506,310

¹ Relates to crop of preceding year, 2 Does not include foreign cotton. 3 Cotton mills only.

United States Imports of Cotton, by Countries of Production

[Equivalent 500-pound bales]

Source: United States Department of Commerce

Period			Egypt	China	Peru	India	Mexico	All Other	Total
Month of —									
July, 1925 .		.	-2,414	-2,828	1,595	3,070	-	20	9,927
June, 1925			10,039	4,542	861	4,294	127	94	19,957
May, 1925			2,717	3,907	600	5,697	954	344	-14,219
April, 1925			14,726	3,728	455	2,822	165	513	22,409
March, 1925			19,024	7,567	288	4,545	-2,218	313	33,955
February, 1925			41,284	8,380	1,324	1,643	6,283	988	59,902
January, 1925			42,784	1,420	3,335	415	6,274	594	54,822
December, 1924			36,423	_	1,313	1,091	9,507	329	48,665
November, 1924			11,053	192	1.083	383	4,663	175	17,549
October, 1924	Ċ		3,687	446	1,265	1,340	11,376	21	18,13
September, 1924			4.674	171	563	1,467	2,779	_	9,65
August, 1924 .			1,488	522	707	1,380	38	1	4,130
Season ending —									
July 31, 1925			190,313	33,703	13,389	28,147	44,384	3,392	313,328
July 31, 1924	•		164,152	45,118	19,928	34,419	27,062	1,609	292,288
July 31, 1923	•	•	329,335	50,239	21,186	22,124	45,679	1.391	469,95
July 31, 1923	•		233,729	15,563	38,753	10,348	53,637	11,435	363,465
July 31, 1921	•		87,168	14,722	22,597	8,489	88,155	5,210	226,341
July 31, 1920			485,004	57,185	63,426	14,358	65,343	14,898	700,21-
July 31, 1919	•	•	100,006	10.871	25,230	2,893	54,434	8,151	201.583
July 31, 1918	•		114,580	38,964	19,692	7,096	35,726	5,158	221,210
July 31, 1917	•		199,892	36,063	11,069	3,860	32,858	8,215	291,957
July 31, 1916	•	•	350,796	35,792	10,909	4,214	30,098	5,765	437,57
July 31, 1915	•		252,373	25,631	10,353	7.845	85,180	904	382,286
July 31, 1914	•		138,579	20,772	12,627	7,849	80,285	876	260,988

United States Exports of Domestic Cotton and Linters, by Countries of Destination

[For fiscal years]

Source: United States Department of Commerce

	All Other Coun- tries	50,527 32,965 27,331 139,325 53,381	16,615 14,967 14,122 121,281 170,592	127,520 11,018 15,303 145,579 4,012	1,831 6,506 4,375 7,775 4,603	9,405 580 2,978 7,054 718	13,015 4,130 13,416 333	888 891 871 873
	Mexico	81 1,082 15,492 6,195 70,602	1,141 1,707 10,706 5,298 23,695	39,727 34,671 20,977 16,129 4,631	29,604 42,575 4,767 732 29,285	79,082 56,172 66,507 27,500 35,103	18,522 36,130 42,433 30,207	38,817 75,953 35,165 41,812
	Canada	206,853 151,731 217,052 201,166 169,166	216,606 203,015 249,973 187,201 197,659	182,790 150,993 152,015 181,667 156,821	125,592 131,453 113,997 150,343	88,795 127,610 129,016 102,980	109,983 98,230 122,495 80,408	68,071 105,531 65,085 62,988
	Japan	819,581 583,957 679,158 895,367 554,892	876,250 809,313 583,546 530,892 503,077	428,806 353,410 396,779 480,931 156,724	95,000 208,913 200,396 262,283 147,269	336,575 45,870 152,826 178,505 78,558	323,202 182,731 224,214 61,022	10,388 22,130 9,603 1,586
	All Other Europe	157,430 153,233 167,646 135,614 155,056	183,729 203,919 82,572 181,717 169,154	\$98,096 63,725 55,376 83,821 48,713	43,378 58,174 62,125 65,083 44,486	72,911 61,488 82,243 61,679 52,325	65,635 81,500 69,189 48,790	51,367 55,319 39,686 22,419
LES) TO -	Nether- lands	151,285 112,456 75,618 96,203 98,754	186,476 57,919 10,098 62,161 102,087	544,035 35,053 14,537 35,242 18,124	18,823 30,129 27,684 29,092 18,490	31,163 16,055 42,542 22,418 53,180	74,635 51,631 43,509 31,731	14,219 25,999 18,581 26,614
OUND BA	Austria 2	2,144 2,958 4,008 5,862	42,858 55,386	155 106,511 113,182 125,564 79,530	57,220 94,782 90,019 113,630 56,375	62,572 28,158 39,912 39,757 37,238	44,919 57,127 35,611 23,971	15,912 24,852 960
NT 500-P	Belgium Russia Austria	286,367 120,318 7,274	310 15,915 49,189 173,419	82,125 99,076 74,907 112,262 81,941	67,203 96,675 98,371 121,141 112,480	129,060 168,506 181,938 73,446 53,171	54,950 95,012 103,825 81,570	91,622 141,998 140,082 36,356
ENPORTS (EQUIVALENT 500-POUND BALES)	Belgium	223,741 168,968 185,769 186,272 166,018	209,572 72,652	5,057 227,474 226,967 211,903 150,225	102,346 157,631 119,470 151,168 114,673	145,564 105,213 157,351 132,232 154,682	148,319 129,524 161,941 83,485	87,966 115,340 128,907 90,399
APORTS (Spain	289,586 216,253 250,244 341,551 260,990	275,034 281,343 259,194 394,093 310,246	464,504 297,339 317,954 313,500 242,073	178,455 301,789 262,744 275,868 241,747	295,537 184,862 266,336 270,602 237,346	246,612 248,635 263,648 219,088	216,178 255,679 225,361 200,212
A	Italy	756,156 563,733 572,068 468,590 558,015	617,263 557,549 369,213 687,158 836,915	1,127,400 537,357 500,823 636,077 436,296	393,327 565,695 418,921 567,916 486,607	534,735 363,295 444,950 445,437 365,359	443,951 417,353 387,581 323,117	261,644 332,656 211,716 160,019
	France	951,473 751,424 704,199 820,049 590,630	596,391 773,741 658,553 1,055,749 890,376	692,699 1,139,399 1,074,987 1,228,294 1,021,998	968,422 1,098,173 889,083 1,006,633 817,583	818,304 734,286 806,673 775,773 754,329	736,092 803,406 812,038 716,025	478,265 790,699 610,854 568,059
	Germany	1,891,992 1,345,554 945,647 1,616,674 1,152,424	420,758	294,194 2,881,324 2,443,886 3,156,171 2,202,707	1,887,657 2,438,090 2,385,663 2,315,651 1,871,441	2,011,679 1,797,354 1,915,094 1,705,815 1,629,935	1,619,173 1,728,975 1,858,525 1,371,577	1,038,457 1,504,631 909,389 850,387
	United Kingdom	2,623,425 1,694,895 1,403,008 1,806,743 1,786,981	3,444,794 2,494,009 2,387,101 2,895,423 2,760,890	3,919,749 3,581,501 3,716,898 4,343,108 3,461,054	2,444,558 3,665,355 2,956,352 3,966,119 3,181,143	3,967,254 2,475,752 2,799,096 3,132,324 3,106,857	2,302,128 3,609,444 3,532,101 3,127,186	2,267,222 3,553,782 2,970,903 2,363,176
	Total	8,439,071 5,898,713 5,253,464 6,717,757 5,622,777	7,087,487 5,525,893 4,641,023 6,176,162 6,168,140	8,807,157 9,521,881 9,124,591 11,070,251 8,067,882	6,413,416 8,895,970 7,633,997 9,036,434 7,268,090	8,609,698 6,126,386 7,086,086 7,001,558 6,661,781	6,201,166 7,546,821 7,700,529 6,207,510	4,670,453 7,034,866 5,366,565 4,424,230
	Total Value	\$1,060,980,197 903,975,146 658,982,855 596,378,864 600,185,629	1,381,707,502 873,579,669 655,024,655 543,074,690 374,186,247	376,217,972 610,475,301 547,357,195 565,849,271 585,318,869	450,447,243 417,390,655 437,788,202 481,277,797 401,005,921	379,965,014 370,811,246 316,180,429 290,651,819 313,673,443	241,832,737 209,564,774 230,442,215 230,890,971	190,056,460 204,900,990 210,869,289 188,771,445
	YEAR							
	YE	1925 1924 1923 1922 1922	$\begin{array}{c} 1920 \\ 1919 \\ 1918 \\ 1917 \\ 1916 \end{array}$	1915 1914 1913 1912 1911	$\begin{array}{c} 1910 \\ 1909 \\ 1908 \\ 1907 \\ 1906 \end{array}$	$\begin{array}{c} 1905 \\ 1904 \\ 1903 \\ 1902 \\ 1901 \end{array}$	$\begin{array}{c} 1900 \\ 1899 \\ 1898 \\ 1897 \end{array}$	$\begin{array}{c} 1896 \\ 1895 \\ 1894 \\ 1893 \end{array}$

¹ Includes Finland and Poland prior to 1919.

² Includes Czechoslovakia and Hungary prior to 1920.

United States Exports of Cotton, by Ports

[In running bales, including linters]

Source: New York Cotton Exchange

•	1912-13 1	1920-21	1921-22	1922-23	1923-24	1924-25
Galveston .	3,216,704	2,691,473	2,494,504	1,929,111	2,080,874	2,854,503
New Orleans .	1,350,327	1,034,310	1,320,016	814,017	$945,\!227$	1,379,102
Mobile	143,148	72,366	122,619	59,099	22,676	80,789
Savannah .	836,187	560,698	692,375	293,496	343,241	480,783
Charleston .	228,478	54,615	176,021	89,732	157,405	243,983
Wilmington .	317,831	97,251	107,175	98,900	95,050	108,213
Norfolk	72,692	111,664	238,027	174,320	219,631	252,226
Baltimore .	84,512	5,911	7,759	2,369	3,259	397
New York .	615,418	92,080	202,776	302,169	542,951	505,510
Boston	159,589	13,450	16,704	13,552	18,555	14,325
Philadelphia .	62,222	3,605	4,279	1,977	2,917	7,490
Newport News	291	-	_	_	19	-
Brunswick .	211,819	11,830	29,480	28,477	50	_
Pensacola, etc.	125,099	9,993	10,821	9,245	11,950	8,490
Port Arthur .	138,642	2,198	_	_	_	_
Port Townsend	104,506	176,567	90,959	9,632	47,134	84,111
San Pedro, etc.	_	70,461	61,186	18,869	30,248	78,970
San Francisco	262,917	94,944	61,298	69,112	77,986	111,970
Portland, Ore.	4,046	3,625	1,150	-	_	-
Nogales	325	1,950	_	200	-	-
Texas City, etc.	698,228	24,450	5,242	3,765	1,754	16,794
Eagle Pass .	_	37,171	651	3,534	274	13
El Paso	_	3,252	47	2,850	57	53
Houston	_	466,185	478,131	719,942	1,065,612	1,821,828
Portland, Me.	507	-		199,053	145,656	200,051
Jacksonville .	_	3,015	1,300	675	2,254	1,858
Georgetown .	_	-	_	-		
Total .	8,633,488	5,643,064	6,122,520	4,844,096	5,814,780	8,251,459

¹ Year ending August 31, 1913; other years end July 31.

World's Takings of American Cotton during Past Five Seasons

[In thousands of running bales. Linters included]
Source: New York Cotton Exchange Statistics

August 3 152 152 181 181 154 154 51 151 18 17 179 497 233 624 184 537 97 259 155 130 210 218 841 143 680 96 355 103 31 136 727 283 1,124 201 881 114 460 33 155 14 123 989 243 1,533 243 1,315 159 792 17 14 123 989 243 1,533 243 1,315 159 792 17 156 1,145 215 1,798 214 1,529 184 976 192 156 1,145 215 1,798 214 1,529 184 976 192 156 1,145 215 1,798 214 1,529 184 976 192 12 157 1,619 341 2,707 233 2,358 354 1,867 306 12 157 1,619 341 2,707 233 2,358 354 1,867 306 26 258 2,050 373 3,487 326 3,088 388 2,616 367 306 248 2,729 336 3,888 3,418 3,27 2,943 3,461 327 3,444 3,448			19	20-21	19	21-22	19	22-23	19	23-24	19	24-25
10	EEK ENDIN	1G —	Week	Season	Week	Season	Week	Season	Week	Season	Week	Season
10	gust	3 .	152	152	181	181	154	154	51	51	18	18
17											82	100
24		personal distribution of the last of the l										$\frac{100}{255}$
September 7 139 866 217 1.340 191 1,072 164 633 135 14 123 989 243 1,583 2443 1,315 159 792 178 151 151 1,55 1,300 257 2,955 238 1,767 235 1,211 201 0ctober 5 162 1,462 311 2,366 297 2,004 302 1,513 304 12 157 1,619 341 2,707 293 2,358 354 1,867 306 19 1773 1,792 408 3,115 405 2,763 361 2,228 355 238 1,767 223 2,243 1,315 19 792 1,513 304 19 1,773 1,792 408 3,115 405 2,763 361 2,228 355 26 258 2,050 373 3,487 326 3,088 388 2,616 365 200 2,250 366 3,853 372 3,461 327 2,943 361 2,228 355 26 2,258 2,050 373 3,487 326 3,088 388 2,616 365 2,988 2,789 4,881 399 4,673 394 4,662 31 3,366 248 2,293 361 4,553 408 4,274 384 3,668 308 23 2,266 2,988 2,789 4,881 399 4,673 394 4,662 511 30 2,225 3,213 325 5,156 325 4,988 358 4,420 428 204 6,161 296 6,349 2,725 5,637 31 4,551 422 21 214 3,706 251 5,957 318 6,053 294 5,365 365 365 367 321 244 248 4,498 204 6,161 296 6,349 272 5,637 34 22 24 24 24 24 24 24 24 24 24 24 24 24												360
September 7 139 866 217 1.340 191 1,072 164 633 1.55 14 123 989 243 1,583 243 1,355 159 792 152 21 156 1,445 215 1,798 214 1,529 184 976 193 28 155 1,300 257 2,955 238 1,767 235 1,211 200 19 173 1,619 341 2,707 293 2,358 354 1,867 306 26 258 2,050 373 3,487 326 3,088 361 2,228 366 353 372 3,461 327 2,943 364 226 258 2,020 366 3,533 372 3,461 327 2,943 364 23 260 2,988 278 4,831 399 4,673 394 4,062 31 348 3,668 <td< td=""><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>495</td></td<>			1									495
14												
October												650
October 5 162												828
October 5 162 1.462 311 2.366 297 2.064 302 1,513 304 19 173 1,792 408 3,115 405 2,763 361 1,867 306 26 258 2,050 373 3,487 326 3,088 388 2,616 367 November 2 200 2,250 366 3,853 372 3,461 327 2,943 366 9 231 2,481 339 4,192 405 3,866 341 3,284 348 23 260 2,988 278 4,831 399 4,673 394 4,062 511 30 225 3,213 3,25 5,156 325 4,988 358 4,420 429 December 7 193 3,406 287 5,443 389 5,387 331 4,751 422 1 214 3,766 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1,021</td></t<>												1,021
12												1,222
19								2,064		1		1,526
November 2			1	1				2,358				1,832
November 2										2,228		2,191
9 231 2,481 339 4,192 405 3,866 341 3,284 348 2,729 361 4,553 408 4,274 384 3,668 398 238 260 2,988 278 4,831 399 4,673 394 4,062 511 30 225 3,213 3,206 287 5,156 325 4,998 358 4,420 429 420 421 176 3,582 263 5,705 348 5,735 320 5,071 419 21 214 3,796 251 5,957 318 6,053 294 5,365 367 28 252 4,048 204 6,161 296 6,349 272 5,637 348 5,385 3,894 3,994 4,062 288 252 4,048 204 6,161 296 6,349 272 5,637 348 5,895 3,8	. 2	:6 ·		2,050						2,616		2,558
16	vember	$2 \cdot$		2,250						2,943	365	2,923
December 7 193 3,406 287 5,456 325 4,998 358 4,420 429 149 14 176 3,582 263 5,705 348 5,735 320 5,071 419 214 3,796 251 5,957 318 6,053 294 5,365 367 348 11 214 4,498 204 6,161 296 6,349 272 5,637 348 11 244 4,498 210 6,629 269 6,701 258 5,895 338 11 244 4,498 210 6,629 269 6,970 289 6,184 400 18 270 4,769 284 6,161 296 6,349 272 5,637 348 11 244 4,498 210 6,629 269 6,970 289 6,184 400 18 270 4,769 284 6,913 311 7,281 289 6,173 429 25 25 236 5,005 238 7,151 250 7,531 239 6,712 309 15 25 236 5,005 238 7,151 250 7,531 239 6,712 309 15 25 226 6,049 190 8,032 246 8,567 214 7,679 386 22 202 6,049 190 8,032 246 8,567 214 7,679 386 22 202 6,049 190 8,032 246 8,567 214 7,679 386 29 190 6,238 268 8,299 250 8,818 200 7,879 320 March 7 224 6,462 185 8,484 217 9,035 176 8,055 356 21 1 241 6,921 214 8,966 236 9,491 155 8,433 378 28 158 7,079 224 9,190 216 9,707 173 8,606 356 21 1 241 6,921 214 8,966 236 9,491 155 8,433 378 28 158 7,079 224 9,190 216 9,707 173 8,606 356 21 1 241 7,933 178 9,368 227 9,934 192 8,798 320 255 162 7,782 233 178 9,368 227 9,934 192 8,798 326 23 237 8,580 220 10,886 137 11,042 192 8,990 247 18 175 7,620 177 9,728 181 10,283 177 9,167 226 16 193 8,342 243 10,666 151 10,905 194 9,892 265 23 23 237 8,580 220 10,886 137 11,042 157 10,049 237 11, 183 149 9,107 250 11,542 117 11,183 137 10,186 203 11,292 149 11,332 141 10,327 198 11 1 210 9,873 193 11,292 149 11,332 141 10,327 198 11 210 9,873 193 11,292 149 11,332 141 10,327 198 11 210 9,873 197 12,384 109 11,920 128 10,681 165 10,085 140 10,481 194 200 1,729 9,729 213 11,755 124 11,573 100 10,481 194 277 198 9,477 221 11,976 135 11,708 129 10,610 165 140 140 140 140 140 140 140 140 140 140		9 .		2,481		-4.192		3,866	341	3,284	$\parallel 348$	3,271
December 7	1	6 .		2,729				4,274	384		398	3,669
December 7 193	2	3 .	-260	2,988	278	4,831	399	4,673	394	4,062	511	4,180
14 176 3,582 263 5,705 348 5,735 320 5,071 416 218 3,796 251 5,957 318 6,053 294 5,365 367 348 358 252 4,048 204 6,161 296 6,349 272 5,637 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 367 348 358 368	3	0 .	225	3,213	325	5,156	325	4,998	358	4,420	429	4,609
14	cember		193	3,406	287	5,443	389	5,387	331	4,751	425	5,034
January 4 206 4,255 258 6,419 352 6,701 258 5,895 338 11 244 4,498 210 6,629 269 6,970 289 6,184 40			176	3,582	263	5,705	348		320	5,071	419	5,453
January 4 206 4,255 258 6,419 352 6,701 258 5,895 338 11 244 4,498 210 6,629 269 6,970 289 6,184 409 255 258 5,005 238 7,151 250 7,531 239 6,712 309 250 250 250 250 5,574 213 7,624 250 8,051 232 7,239 396 15 273 5,846 218 7,842 270 8,321 226 7,465 344 222 202 6,049 190 8,032 246 8,567 214 7,679 386 29 190 6,238 268 8,299 250 8,818 200 7,879 320 March 7 224 6,462 185 8,484 217 9,035 176 8,055 356 21 24 7,293 378 21 24 6,921 21 241 6,921 21 8,896 269 8,753 220 9,255 223 8,278 350 21 1 1 152 7,445 183 9,551 168 10,102 192 8,990 247 18 175 7,620 177 9,728 181 10,283 177 9,167 226 18 175 7,620 177 9,728 181 10,283 177 9,167 226 18 193 8,342 243 10,666 151 10,905 194 9,892 265 23 237 8,580 20 172 8,751 213 11,099 141 11,183 137 10,186 203 11 200 172 8,751 213 11,099 141 11,183 137 10,186 203 11 200 172 8,751 213 11,099 141 11,183 137 10,186 203 11 200 172 9,279 213 11,755 124 11,332 141 10,327 198 11,292 149 11,332 141 10,327 198 11,292 149 11,332 141 10,327 198 11,292 149 11,332 141 10,327 198 11,292 149 11,332 141 10,327 198 11,292 149 11,332 141 10,327 198 11,292 149 11,332 141 10,381 203 20 172 9,279 213 11,755 124 11,573 100 10,481 194 27 198 9,477 221 11,976 135 11,708 129 10,610 165 11 210 9,873 197 12,384 109 11,920 128 10,610 165 11 210 9,873 197 12,384 109 11,920 128 10,610 165 188 200 10,073 120 12,604 96 12,016 94 10,946 157 25 100 10,073 120 12,604 96 12,016 94 10,946 157 25 105 10,268 190 12,794 100 12,122 113 11,059 171											367	5,820
January 4 206 4,255 258 6,419 352 6,701 258 5,895 338 11 244 4,498 210 6,629 269 6,670 289 6,184 400 18 270 4,769 284 6,913 311 7,281 289 6,473 423 25 236 5,005 238 7,151 250 7,531 239 6,712 366 8 259 5,574 213 7,624 259 8,051 232 7,239 396 15 273 5,846 218 7,842 270 8,321 226 7,465 344 22 202 6,049 190 8,032 246 8,567 214 7,679 386 29 190 6,238 268 8,299 250 8,818 200 7,879 320 March 7 224 6,462 185 8,484											348	6,168
11											338	6,506
February 1	•											6,915
February 1 310 5,315 260 7,411 250 7,531 239 6,712 309												7,338
February 1												7,647
8												8,004
15 273 5,846 218 7,842 270 8,321 226 7,465 344 222 202 6,049 190 8,032 246 8,567 214 7,679 386 29 190 6,238 268 8,299 250 8,818 200 7,7879 326 270 224 6,462 185 8,484 217 9,035 176 8,055 356 21 241 6,921 214 8,966 236 9,491 155 8,433 378 28 158 7,079 224 9,190 216 9,707 173 8,606 336 356 3												8,400
March 22 202 6,049 190 8,032 246 8,567 214 7,679 386												8,744
March 7 29 6,238 268 8,299 250 8,818 200 7,879 320 14 218 6,680 269 8,753 220 9,255 223 8,278 350 21 241 6,921 214 8,966 236 9,491 155 8,433 378 28 158 7,079 224 9,190 216 9,707 173 8,606 356 28 158 7,079 224 9,190 216 9,707 173 8,606 356 28 158 7,079 224 9,190 216 9,707 173 8,606 356 28 158 7,079 224 9,190 216 9,707 173 8,606 356 28 158 7,079 224 9,190 216 9,707 173 8,606 356 28 17 1 152 7,445 183 9,551 168 10,102 192 8,990 247 18 175 7,620 177 9,728 181 10,283 177 9,167 220 25 162 7,782 233 9,961 155 10,438 193 9,360 214 18 175 7,620 177 9,728 181 10,283 177 9,167 226 25 162 7,782 233 9,961 155 10,438 193 9,360 214 18 16 193 8,342 243 10,666 151 10,905 194 9,892 265 23 237 8,580 220 10,886 137 11,042 157 10,049 237 30 172 8,751 213 11,099 141 11,183 137 10,186 203 112 8,796 12 11 11,183 137 10,186 203 11 149 9,107 250 11,542 117 11,449 54 10,381 203 20 172 9,279 213 11,755 124 11,373 100 10,481 194 27 198 9,477 221 11,976 135 11,708 129 10,610 165 11 210 9,873 197 12,384 109 11,920 128 10,852 180 11 210 9,873 197 12,384 109 11,920 128 10,595 18 200 10,073 220 12,604 96 12,016 94 10,946 157 25 10,028 190 12,794 106 12,122 113 11,059 171												9,130
March 7 224 6,462 185 8,484 217 9,035 176 8,055 350 14 218 6,680 269 8,753 220 9,255 223 8,278 350 21 241 6,921 214 8,966 236 9,491 155 8,433 378 28 158 7,079 224 9,190 216 9,707 173 8,606 356 April 4 214 7,293 178 9,368 227 9,934 192 8,798 320 11 152 7,445 183 9,551 168 10,102 192 8,990 247 18 175 7,620 177 9,728 181 10,283 177 9,167 226 25 162 7,782 233 9,961 155 10,438 193 9,360 214 May 2 183 7,965 234<												9,150
14												
April 4 214 7,293 178 9,368 227 9,934 192 8,798 326 11 1 152 7,445 183 9,551 168 10,102 192 8,990 247 18 175 7,620 177 9,728 181 10,283 177 9,167 226 183 7,965 234 10,195 158 10,596 160 9,520 283 9 184 8,149 228 10,423 158 10,596 160 9,520 283 166 193 8,342 243 10,666 151 10,965 194 9,892 245 23 23 23 23 158 10,596 160 9,520 283 16 193 8,342 243 10,666 151 10,965 194 9,892 245 23 123 123 123 123 123 124 11,183 137 10,186 203 13 149 9,107 250 11,542 117 11,449 13 10,185 20 10,481 194 11,481 27 198 11,292 149 11,332 141 10,327 198 13 149 9,107 250 11,542 117 11,449 10,181 20 10,181 20 11,291 21 11,076 135 11,708 129 10,610 165 11 12,109 14 11,183 137 10,186 203 11,292 149 11,332 141 10,321 198 11,292 149 11,332 141 10,321 198 11,292 149 11,332 141 10,381 203 149 127 19,279 213 11,755 124 11,573 100 10,481 194 11,210 9,873 197 12,384 109 11,920 128 10,852 180 18 200 10,073 220 12,664 96 12,016 94 10,946 157 25 195 10,268 190 12,794 106 12,122 113 11,059 171												9,800
April 4 214 7,293 178 9,368 227 9,934 192 8,798 326 11 1 152 7,445 183 9,551 168 10,102 192 8,990 247 18 175 7,620 177 9,728 181 10,283 177 9,167 226 162 7,782 233 9,961 155 10,438 193 9,360 214 192 193 193 193 193 193 193 193 193 193 193												10,150
April 4 214 7,293 178 9,368 227 9,934 192 8,798 320 11 152 7,445 183 9,551 168 10,102 192 8,990 247 18 175 7,620 177 9,728 181 10,283 177 9,167 226 25 162 7,782 233 9,961 155 10,438 193 9,360 214 May 2 183 7,965 234 10,195 158 10,596 160 9,520 283 9 184 8,149 228 10,423 158 10,596 160 9,520 283 16 193 8,342 243 10,666 151 10,905 194 9,892 265 23 237 8,580 220 10,886 137 11,183 137 10,186 203 June 6 206 8,958 <									f1			10,528
11 . 152 7,445 183 9,551 168 10,102 192 8,990 247 18 . 175 7,620 177 9,728 181 10,283 177 9,167 220 25 . 162 7,782 233 9,961 155 10,438 193 9,360 214 May 2 . 183 7,965 234 10,195 158 10,596 160 9,520 283 9 . 184 8,149 228 10,423 158 10,754 178 9,698 242 16 . 193 8,342 243 10,666 151 10,905 194 9,892 265 23 . 237 8,580 220 10,886 137 11,042 157 10,049 237 30 . 172 8,751 213 11,099 141 11,183 137 10,186 203 13 . 149 9,107 250 11,542 117 11,449 54 10,327 198 20 . 172 9,279 213 11,755 124 11,573 100 10,481 194 27 . 198 9,477 221 11,976 135 11,708 129 10,610 165 11 . 210 9,873 197 12,384 109 11,920 148 10,724 150 18 . 200 10,073 220 12,604 96 12,016 94 10,946 157 25 . 195 10,268 190 12,794 106 12,122 113 11,059 171												10,884
May 2 183 7,965 234 10,195 158 10,438 193 9,360 214 May 2 183 7,965 234 10,195 158 10,596 160 9,520 283 9 184 8,149 228 10,423 158 10,754 178 9,698 242 16 193 8,342 243 10,666 151 10,905 194 9,892 265 23 237 8,580 220 10,886 137 11,042 157 10,049 237 30 172 8,751 213 11,099 141 11,183 137 10,186 203 June 6 206 8,958 193 11,292 149 11,332 141 10,327 198 13 149 9,107 250 11,542 117 11,449 54 10,381 203 20 172 9,279 213 11,755 124 11,573 100 10,481 194 27 198 9,477 221 11,976 135 11,708 129 10,610 165 July 4 185 9,662 211 12,187 103 11,811 114 10,724 150 11 210 9,873 197 12,384 109 11,920 128 10,852 180 18 200 10,073 220 12,604 96 12,016 94 10,946 157 25 195 10,268 190 12,794 106 12,122 113 11,059 171												11,204
May 2 183 7,965 234 10,195 158 10,438 193 9,360 214 9 184 8,149 228 10,423 158 10,596 160 9,520 283 16 193 8,342 243 10,666 151 10,905 194 9,892 265 23 237 8,580 220 10,886 137 11,042 157 10,049 237 30 172 8,751 213 11,099 141 11,183 137 10,186 203 June 6 206 8,958 193 11,292 149 11,332 141 10,327 198 13 149 9,107 250 11,542 117 11,449 54 10,381 203 20 172 9,279 213 11,755 124 11,573 100 10,481 194 27 198 9,477 221 11,976 135 11,708 129 10,610 165 July 4 185 9,662 211 12,187 103 11,811 114 10,724 150 11 210 9,873 197 12,384 109 11,920 128 10,852 180 18 200 10,073 220 12,604 96 12,016 94 10,946 157 25 195 10,268 190 12,794 106 12,122 113 11,059 171						9,551						11,451
May 2 . 183 7,965 234 10,195 158 10,596 160 9,520 283 9 184 8,149 228 10,423 158 10,754 178 9,698 242 166 193 8,342 243 10,666 151 10,905 194 9,892 265 23 237 8,580 220 10,886 137 11,042 157 10,049 237 30 172 8,751 213 11,099 141 11,183 137 10,186 203 13 149 9,107 250 11,542 117 11,449 54 10,327 198 20 172 9,279 213 11,755 124 11,573 100 10,481 194 27 198 9,477 221 11,976 135 11,708 129 10,610 165 11 210 9,873 197 12,384 109 11,920 128 10,525 180 18 200 10,073 220 12,604 96 12,016 94 10,946 157 25 105 10,268 190 12,794 106 12,122 113 11,059 171										_ /		11,671
9 . 184 8,149 228 10,423 158 10,754 178 9,698 242 16 . 193 8,342 243 10,666 151 10,905 194 9,892 265 23 . 237 8,580 220 10,886 137 11,042 157 10,049 237 30 . 172 8,751 213 11,099 141 11,183 137 10,186 203 30 . 172 8,751 213 11,099 141 11,183 137 10,186 203 13 . 149 9,107 250 11,542 117 11,449 54 10,327 198 20 . 172 9,279 213 11,755 124 11,573 100 10,481 194 27 . 198 9,477 221 11,976 135 11,708 129 10,610 165 July 4 . 185 9,662 211 12,187 103 11,811 114 10,724 150 11 . 210 9,873 197 12,384 109 11,920 128 10,852 180 18 . 200 10,073 220 12,604 96 12,016 94 10,946 157 25 . 195 10,268 190 12,794 106 12,122 113 11,059 171						. ,						11,885
June 6 193 8,342 243 10,666 151 10,905 194 9,892 265 23 237 8,580 220 10,886 137 11,042 157 10,049 237 30 172 8,751 213 11,099 141 11,183 137 10,186 203 June 6 206 8,958 193 11,292 149 11,332 141 10,327 198 13 149 9,107 250 11,542 117 11,449 54 10,381 203 20 172 9,279 213 11,755 124 11,573 100 10,481 194 27 198 9,477 221 11,976 135 11,708 129 10,610 165 July 4 185 9,662 211 12,187 103 11,811 114 10,724 150 11 210 9,873 197 12,384 109 11,920 128 10,952 18 18 200 10,073 220 12,604 96 12,016 94 10,946 157 25 195 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>11</td><td></td><td></td><td>12,168</td></td<>									11			12,168
June 23 237 8,580 220 10,886 137 11,042 157 10,049 237 30 172 8,751 213 11,099 141 11,183 137 10,186 203 203 204 204 205												12,410
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	6.		8,342	243	10,666		10,905				12,675
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	3.		8,580		10,886	137					12,912
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3	0 .	172	8,751	213	11,099	141	11,183	137	10,186	203	13,115
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ie -	6.	206	8,958	193	11,292	149	11,332	141	10,327	198	13,313
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			149	9,107	250	11,542	117	11,449	54	10,381	203	13,516
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			172	9,279	213	11,755	124	11,573	100	10,481	194	13,710
July 4 . 185 9,662 211 12,187 103 11,811 114 10,724 150 11 . 210 9,873 197 12,384 109 11,920 128 10,852 180 18 . 200 10,073 220 12,604 96 12,016 94 10,946 157 25 . 195 10,268 190 12,794 106 12,122 113 11,059 171											165	13,875
11 210 9,873 197 12,384 109 11,920 128 10,852 180 18 200 10,073 220 12,604 96 12,016 94 10,946 157 25 195 10,268 190 12,794 106 12,122 113 11,059 171											150	14,025
18 . 200 10,073 220 12,604 96 12,016 94 10,946 157 25 . 195 10,268 190 12,794 106 12,122 113 11,059 171												14,205
25 195 10,268 190 12,794 106 12,122 113 11,059 171												14,362
												14,533
31 54 10,323 95 12,889 67 12,189 85 11,144 236			1		í I							14,769

American (including Canadian) Takings of American Cotton during Past Five Seasons

[In thousands of running bales. Linters included]
Source: New York Cotton Exchange Statistics

		19	20-21	19	21-22	19:	22-23	192	23-24	199	24-25
WEEK EN	DING —	Week	Season	Week	Season	Week	Season	Week	Season	Week	Season
August	3 .	32	32	73	73	60	60	31	31	8	8
8	10 .	48	80	77	150	91	151	46	77	43	51
	17 .	49	130	81	230	68	219	43	120	41	92
	$\frac{24}{24}$.	51	181	99	$\frac{230}{329}$	66	285	36	156	60	152
	$\overline{31}$.	46	227	124	453	111	396	48	204	52	204
Septembe		48	275	117	570	99	495	101	305	88	$\frac{292}{292}$
Ecptemin	14 .	49	324	112	682	131	626	105	410	86	378
	21 .	53	377	114	796	123	749	118	528	118	496
	$\tilde{28}$.	84	461	140	935	127	876	128	656	118	614
October	5 .	80	540	201	1,136	197	1,073	184	840	161	775
October	10	97	638	211	1,130 $1,347$	$\frac{13}{204}$	1,277	199	1,039	167	942
	10	101	739	237	1,583	$\frac{204}{256}$	$\frac{1,277}{1,533}$	$\frac{139}{249}$	1,288	188	1,130
	(3.4	138	877	$\frac{237}{235}$	1,363 $1,817$	$\frac{230}{268}$	1,801	$\frac{249}{243}$	1,531	199	1,329
Novembe.		143	1,020	228	$\frac{1,517}{2,046}$	233	$\frac{1,801}{2,034}$	193		230	1,529 $1,559$
rovembe.		128	1,148	206	$\frac{2,040}{2,252}$	$\frac{255}{244}$	$\frac{2,034}{2,278}$	210	$\frac{1,724}{1,934}$	194	
	4.0	133	1,148 $1,281$			$\frac{244}{258}$	$\frac{2,278}{2,536}$		9.150		$\frac{1,753}{1,980}$
	000			188	2,439			236	2,170	227	
	$\frac{23}{20}$.	129	1,410	165	2,604	259	2,795	240	2,410	233	2,213
D	30 .	104	1,514	170	2,773	228	3,023	248	2,658	256	2,469
December	-4 4	97	1,611	144	2,917	249	3,272	180	2,838	229	2,698
	14 .	92	1,703	131	3,049	218	3,490	169	3,007	208	2,906
	$\frac{21}{2}$.	109	1,812	119	3,167	195	3,685	181	3,188	191	3,097
7	28 .	100	1,912	118	3,285	173	3,858	147	3,335	165	3,262
January	4 .	107	2,019	128	3,413	197	4,055	132	3,467	193	3,455
	I1 .	110	2,129	127	3,540	202	4,257	156	3,623	188	3,643
	18 .	114	2,244	120	3,660	169	4,426	142	3,765	207	3,850
12.1	25 .	114	2,358	121	3,782	141	4,567	130	3,895	156	4,006
February	1 .	140	2,498	128	3,910	125	4,692	134	4,029	161	4,167
	8 .	129	2,627	119	4,029	116	4,808	132	4,161	190	4,357
	15 .	138	2,765	101	4,130	144	4,952	118	4,279	169	4,526
	22 .	119	2,884	103	4,234	133	5,085	97	4,376	171	-4,697
	29 .	108	2,992	112	4,346	121	5,206	96	4,472	159	4,856
March	7 .	113	3,105	108	4,454	115	5,321	82	4,554	173	-5,029
	14 .	96	3,201	103	4,557	99	5,420	83	4,637	165	-5,194
	21 .	108	3,309	87	4,645	99	5,519	83	4,720	170	5,364
	28 .	84	3,393	101	4,746	98	5,617	79	4,799	171	5,535
April	4 .	83	3,476	85	4,831	107	5,724	83	4,882	118	-5.653
	11 .	78	3,554	81	4,912	81	5,805	64	4,946	100	5,753
	18 .	86	3,640	82	4,994	95	5,900	67	5,013	109	-5,862
	25.	85	3,725	75	5,069	90	5,990	68	5,081	95	-5.957
May	2 .	109	3,834	132	5,201	109	6,099	62	5,143	105	6,062
	9 .	107	3,941	110	5,311	94	6,193	60	5,203	100	-6,162
	16 .	104	4,045	110	5,421	68	6,261	57	5,260	85	6,247
	23 .	114	4,159	110	5,531	60	6,321	56	5,316	79	-6,326
_	30 .	97	4,256	87	5,618	51	6,372	46	5,362	74	-6,400
June	6 .	98	4,354	87	5,705	51	6,423	29	5,391	75	6,475
	13 .	98	4,453	81	5,786	57	6,480	28	5,419	74	-6,549
	20 .	95 [4,548	82	5,868	61	6,541	28	5,447	64	6,613
	27 .	83	4,631	90	5,958	50	6,591	31	5,478	59	-6,672
July	4.	69	4,700	74	6,032	58	6,649	35	5,513	45	-6,717
	11 .	67	4,767	75	6,107	53	6,702	31	5,544	38	6,755
	18 .	71	4,838	80	6,187	52	6,754	30	5,574	53	6,808
	25 .	76	4,914	56	6,243	52	6,806	31	5,605	63	6,871
	31 .			55	6,298						

Movement of American Crop into Sight during Past Five Seasons

[In thousands of running bales, Linters included]
Source: New York Cotton Exchange Statistics

		19	20-21	19	21-22	19	22-23	199	23-24	19	24-25
WEEK EN	DING —	Week	Season	Week	Season	Week	Season	Week	Season	Week	Season
August	3 .	76	76	92	92	51	51	31	31	6	(
.,	10 .	37	114	. 116	208	96	147	61	$\frac{31}{92}$	52	58
	17 .	66	180	132	341	93	240	89	181	64	122
	24 .	79	259	141	482	115	355	133	314	79	201
	31 .	92	351	188	558	186	541	209	523	177	378
September		112	463	212	882	251	792	$\frac{271}{271}$	794	268	646
1	14 .	153	616	246	1,128	325	1,117	317	1,111	365	1,011
	$2\overline{1}$.	205	821	335	1,463	440	1,557	424	1,535	481	1,492
	$\overline{28}$.	288	1,110	420	1,883	508	2,065	456	1,991	516	2,008
October	5 .	302	1,411	500	2,383	598	$\frac{2,000}{2,663}$	565	2,556	588	2,59€
o conc.	$1\overset{\circ}{2}$.	350	1,762	520	2,903	596	3,259	580	$\frac{2,030}{3,136}$	647	3,243
	$\frac{15}{19}$.	421	2,183	483	3,385	671	3,930	614	3.750	741	
	$\frac{15}{26}$.	436	$\frac{2,183}{2,619}$	463	3,848	626	$\frac{3,350}{4,556}$	597	3,750		-3,984
November		$\frac{450}{455}$	$\frac{2,019}{3,074}$	448					4,347	685	-4,669
raovember		$\frac{455}{427}$			4,296	608	5,164 $5,710$	518	4,865	723	$\frac{5,392}{6,056}$
	10		3,501	393	4,689	546	5,710	475	5,340	664	-6.056
		391	3,892	388	5,072	522	6,232	512	5.825	684	-6,740
	$\frac{23}{30}$.	395	4,287	304	5,376	447	6,679	501	6,353	720	7,460
D 1		379	4,666	305	5,681	361	7,040	491	6,844	660	8,120
December	7 .	340	5,006	274	5,956	338	7,378	387	7,231	629	8,749
	14 .	309	5,316	250	6,201	297	7,675	368	7,599	493	9,242
	$\frac{21}{2}$.	301	5,617	264	6,464	250	7,925	301	7,900	506	9,748
	28 .	293	5,910	245	-6,709	257	8,182	302	8,202	406	10,154
January	4 .	250	6,160	184	6,893	231	8,413	219	8,421	422	10,576
	11 .	236	6,396	184	7,078	224	8,637	234	8,655	366	10,942
	18 .	254	-6,650	189	7,266	189	8,826	230	8,885	378	11,313
	25 .	254	6,904	160	7,427	170	-8,995	195	9,080	268	-11,581
February	1 .	262	7,166	144	7,571	152	9,148	185	9,265	258	-11,839
	8 .	225	7,391	151	7,722	116	9,263	161	9,426	263	12,102
	15 .	-226	7,616	143	7,865	105	9,369	152	9,578	297	12,399
	2 2 .	215	7,831	134	7,999	121	9,489	118	9,696	257	12,656
	29	171	8,002	141	8,141	123	9,612	103	9,799	233	12,889
March	7.	192	8,195	138	8,278	129	9,741	80	9,879	240	13,129
	14 .	169	8,363	155	8,433	126	9,867	81	9,960	224	13,353
	21 .	151	8,515	149	8,582	125	9,992	90	10,050	215	13,568
	28 .	170	8,685	153	8,735	107	10,099	81	10,131	176	13,744
April	4 .	180	8,856	133	8,868	68	10,167	78	10,209	100	13,844
-	11 .	144	8,999	141	9,009	62	10,229	84	10,293	95	13,939
	18 .	171	9,171	125	9,134	65	10,294	83	10,376	83	14,022
	25 .	165	9,336	124	9,258	77	10,371	78	10,454	94	14,116
May	2 .	204	9,540	157	9,415	71	10,442	78	10,532	82	14,198
•	9 .	241	9,780	158	9,573	65	10,506	72	10,604	85	14,283
	16 .	211	9,991	143	9,716	50	10,556	73	10,677	60	14,343
	23 .	199	10,190	153	9.869	55	10,611	74	10,751	59	14,402
	30 .	165	10,355	124	9,993	50	10,661	70	10,821	65	14,467
lune	6 .	170	10,525	126	10,119	50	10,711	55	10,876	66	14,533
	13 .	150	10,675	103	10,222	56	10,767	40	10,916	54	14,587
	$\frac{10}{20}$.	171	10,846	109	10,331	59	10,827	49	10,965	48	14,635
	$\frac{20}{27}$.	131	10,977	100	10,431	$\begin{bmatrix} 59 \\ 59 \end{bmatrix}$	10,886	43	11,008	46	14,681
luly	4 .	96	11,073	85	10,431	48	10,830 $10,934$	46	11,054	30	14,031 $14,711$
	1.1	98	11,073	74	10,510	42	$10,934 \\ 10,976$	41		31	14,742
	18 .	$\frac{125}{125}$	11,296	71	10,390 $10,662$	35			11,095	58	14,800
	$\frac{18}{25}$.			26			11,011	45	11,140		14,864
	31 .	$\begin{vmatrix} 128 \\ 74 \end{vmatrix}$	$11,423 \\ 11,497$	57	$10,688 \mid 10,745 \mid$	$\begin{bmatrix} 42 \\ 39 \end{bmatrix}$	$\begin{array}{c c} 11,053 \\ 11,091 \end{array}$	$\begin{vmatrix} 46 \\ 40 \end{vmatrix}$	11,186 11,226	$\begin{bmatrix} 64 \\ 78 \end{bmatrix}$	14,804 $14,942$
	OI.	1 44 1	11.4597	101	111 (45	. 304		40	11.730	1 (5)	14 943

¹ 7,000 bales burned.

Monthly Movement of Cotton into Sight

[Running bales, linters included]

Source: New York Cotton Exchange

				 1921-22	1922-23	1923-24	1924-25
August .				558,369	444,343	523,137	421,375
September				1,324,363	1,676,461	1,543,717	1,934,838
October				2,100,838	2,698,384	2,638,665	3,035,433
November				1,550,411	2,096,038	2,138,035	2,853,939
December				1,204,903	1,274,932	1,445,279	$2,\!261,\!434$
January				750,453	847,799	935,395	$1,\!377,\!691$
February				577,339	519,094	574,369	1,046,591
March .		,		677,996	560,223	369,007	891,552
April .				542,227	287,827	355,314	399,238
May .				655,164	248,224	310,818	263,397
June .				498,604	238,422	207,107	221,987
July .				314,138	199,974	190,342	240,903
				10,754,805	11,091,721	11,226,185	14,948,278
Burned .				10,000 1	564 ¹	-	6,604
Total in	nto s	sight		10,744,805	11,091,157	11,226,185	14,941,674
Add .				$751,626^{2}$	91,240 ²	96,016 2	21,259
Deduct .				_	_	_	_
Total e	rop			11,496,431	11,182,397	11,322,201	14,962,933

¹ Burned at interior towns.

² Decrease of stock at interior towns under previous year.

Growth of the Cotton Manufacturing Industry of the United States

	1889	1899	1904	1909	1914	1919	1921	1923
Invested capital	\$354,020,843	\$354,020,843 \$167,240,157	\$613,110,655	\$613,110,655 \$822,237,529	\$899,761,682	\$1,911,919,506	Not collected	Not collected
Number of active producing spindles .	14,188,103	19,050,952	23,195,143	27,425,608	30,915,489	33,795,681	36,047,367	36,260,001
Number of concerns	905	1,005	1,154	1,324	1,328	1,496	1,527	1,613
Number of employees	218,876	302,861	315,874	378,880	393,404	446,852	425,817	497,378
Value of product calendar year	\$267,981,724	\$339,200,320	\$339,200,320 \$450,467,704 \$628,391,813	\$628,391,813	\$701,300,933	\$2,195,565,881	\$1,330,263,117 \$2,010,141,147	\$2,010,141,147
Consumption of raw cotton and linters	Cotton year, 1889-90 2,518,409	Cotton year, 1889-90 Cotton year, 1899-1900 Cotton year, 1904-05 Cotton year, 1904-05 Cotton year, 1904-10 Cotton year, 1904-10 Cotton year, 1904-10 2,518,409 3,687,253 4,523,208 4,759,361 6,087,338	Cotton year, 1904-05 4,523,208	Cotton year, 1909–10 4,759,361	Cotton year, 1911–15 6,087,338	Cotton year, 1919-20 6,807,817	Cotton year, 1920-21 5,408,979	Cotton year, 1922-23 7,312,201
(in 200-pound bases). Value of total exports of cotton manu-	\$10,212,614	\$23,566,914	\$22,403,713	\$31,878,566	\$51,467,233	\$232,206,566	\$240,359,362	\$145,360,208
Value of total imports of cotton manufactures, year ending June 30.	26,805,942	32,054,434	49,524,246	63,231,968	70,704,828	34,762,723	97,550,315	154,015,933

¹ Total active cotton-producing spindles whether in cotton manufacturing industry or not.

Summary of the Cotton Manufactures Industry for New England, Census of Manufactures, 1923

Source: United States Bureau of the Census, Department of Commerce

		Maine 1	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	Total
Number of establishments	٠	16	23	77	245	153	69	510
Persons engaged		13,998	19,505	1,098	119,448	40,780	19,705	214,531
Proprietors and firm members	•	ı	S	l	34	41	18	101
Salaried employees	•	188	069	다	2,663	1,255	206	5,745
Wage carners (average number)	•	13,810	18,804	1,056	116,751	39,484	18,780	208,685
Salaries and wages		\$14,608,221	\$19,100,809	\$1,179,095	\$126,689,318	\$46,464,500	\$21,578,558	\$229,620,510
Salaries	•	632,351	1,613,915	98,704	8,644,424	4,071,329	2,313,757	17,374,480
Wages	•	13,975,870	17,486,894	1,080,391	118,044,894	42,393,180	19,264,801	212,246,030
Paid for contract work	•	289,101	65,599	2,930	3,712,206	779,270	272,965	5,122,071
Cost of materials	-	28,255,722	40,156,576	2,070,340	230,754,283	74,320,017	40,856,559	416,413,497
Value of product	•	46,702,017	67,182,864	3,912,997	429,326,215	150,498,370	77,586,629	775,209,092
Value added by manufacture ² .	•	18,446,295	27,026,288	1,842,657	198,571,932	76,178,353	36,730,070	358,795,595

1 Excludes statistics for one establishment to avoid disclosure of its operations,

² Value of products less cost of materials.

United States Production of the Principal Cotton Piece Goods; and Yarns for Sale, 1923, 1921, and 1919

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1923	1921	1919
	Square Yards	Square Yards	Square Yards
Woven goods (over 12 inches in			
width)		6,703,835,942	6,317,398,000
Sheetings	1,695,520,069	1,600,999,000	1,368,946,000
South Carolina	549,849,047	552,384,046	472,867,617
Georgia	271,562,614	258,108,831	238,851,455
North Carolina	184,051,205	141,612,847	156,590,868
Massachusetts	136,433,893	137,893,022	81,367,563
Print cloth	1,578,196,293	1,157,680,000	997,485,000
South Carolina	830,088,788	557,114,622	450,997,849
Massachusetts	459,296,360	393,409,673	373,938,032
North Carolina	119,174,230	97,450,230	70,360,345
Lawns, nainsooks, eambries, and			
similar muslins	367,209,215	392,203,000	417,893,000
Massachusetts	157,246,005	188,804,824	243,580,824
Connecticut	51,613,296	58,187,624	52,612,464
North Carolina	49,340,482	_1	_
Rhode Island	45,503,946	53,672,221	65,681,875
Ginghams	571,664,554	536,609,000	368,308,000
North Carolina	163,296,966	122,719,438	105,680,259
Massachusetts	136,695,791	137,880,098	102,297,902
South Carolina	37,491,030	37,379,682	36,447,592
Shirtings (not silk-striped) .	254,129,726	249,306,000	318,264,000
North Carolina	61,350,157	56,104,065	63,223,540
Massachusetts	44,733,481	74,369,085	$92,\!952,\!726$
South Carolina	37,199,662	54,278,007	42,097,575
Shirtings (silk-striped)	78,685,447	51,413,734	33,865,803
Massachusetts	32,709,440	47,316,736	27,974,838
South Carolina	0.1.00=.0=0	1	_
Rhode Island	12,398,212	_ 1	_
Cloth of cotton and silk or other	/ /		
vegetable fibre and silk			
(except silk-striped shirtings		36,558,908	51,404,771
Massachusetts	103,099,673	16,730,079	21,143,714
Rhode Island	17,627,283	_1	
Pennsylvania	7,870,519	_ 1	-
Drills	303,420,862	191,715,000	314,822,000
Georgia	116,119,981	54,468,304	86,226,872
a 1 a 1	75,103,202	63,916,287	96,339,969
4.1.1	54,143,523	21,593,014	50,555,505
Alabama	04,140,020	21,090,014	

¹ Not reported separately.

United States Production of the Principal Cotton Piece Goods; and Yarns for Sale, 1923, 1921, and 1919 — (Concluded)

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1923	1921	1919
	Square Yards	Square Yards	Square Yards
Cotton flannel (canton flannel, flan-			
nelettes, and blanketings) .	381,396,884	294,718,000	268,068,000
North Carolina	146,958,460	108,845,957	98,436,715
Massachusetts	100,925,303	84,790,910	78,640,678
New Hampshire	69,933,971	50,122,152	59,592,244
Tieks	53,499,190	46,524,741	53,683,485
North Carolina	17,336,236	13,036,546	21,514,757
Massachusetts	10,206,709	10,589,945	13,383,379
Tobacco, cheese, butter, bunting	· · · ·	, ,	,,
and bandage cloths	402,312,139	274,255,642	239,866,071
Massachusetts	248,276,400	153,374,313	202,401,915
Twills and sateens	489,380,066	384,636,000	424,478,000
Massachusetts	130,902,592	90,166,148	116,915,845
Georgia	61,611,879	41,472,634	25,622,585
Connectieut	44,365,575	46,508,323	29,198,245
Denims	225,640,344	168,127,000	166,698,000
North Carolina	89,557,002	71,516,582	70,366,740
Georgia	32,591,652	19,989,343	
Massachusetts	19,372,683	12,599,069	18,204,837
Tire Duck	68,258,927	51,723,000	123,465,000
Massachusetts	17,921,361	11,059,044	39,639,018
Georgia	7,656,161	12,992,271	11,685,777
Ounce duck	139,221,366	97,033,000	178,540,000
Georgia	38,114,787	31,343,847	56,970,661
Texas	37,974,541	28,605,027	31,838,893
Alabama	29,134,834	20,950,042	01,000,000
Numbered duck	27,862,308	38,167,000	34,496,000
Georgia	9,531,654	6,346,624	8,537,758
Maryland	8,607,810	7,926,282	0,001,100
Tire fabries, other than duck	158,317,776	43,934,000	36,806,000
Massachusetts	28,019,743 2	18,215,138	18,647,503
Cotton blankets	88,060,112	91,520,000	96,621,000
Massachusetts	16,354,558	23,385,276	46,470,714
aramoutture (tr	, ,	· · · · · · · · · · · · · · · · · · ·	
Yarns, for sale	Pounds 620 725 267	Pounds	Pounds
NT 11 G 11	620,725,267	484,218,907	618,034,098
	259,579,191	198,917,839	199,191,556
	86,553,515	68,827,236	76,653,909
Massachusetts	79,272,641	71,094,939	154,709,604

Not reported separately.

² Cord fabrics only.

Principal Classes of Cotton Goods produced by Sections, 1919, 1921 and 1923

							Decre	CASE OR ASE (PER ENT)
				1923	1921	1919	1921 to 1923	1919 to 1923
	,							
All Woven Goods	(ove ide)	r 1.3	inch€8					
United States:	ute)							
Square vards				. 8,261,219,579	6,703,835,942	6,317,397,981	23.3	20.0
Value	-	•	•	. \$1,398,901,764	\$956,731,S60	\$1,489,610,779	46.2	30.S -6.1
varue Cotton-growing l			•	\$1,598,901,704	\$990,151,500	\$1,459,010,779	40.2	-6.1
1.			•	. 4,767,309,272	3,620,559,108	3,213,197,498	31.7	10.4
								48.4
Value New England:	•	•		. \$706,513,963	\$422,341,753	\$652,139,729	67.3	8.3
Square yards				. 3,143,580,641	2,809,820,228	2,824,924,188	11.9	11.3
Value				. \$563,108,841	\$444,435,688	\$703,159,102	26.7	-19.9
$Sh\epsilon\epsilon$	tings							
United States:								
Square yards				1,695,520,069	1,600,998,979	1,368,946,386	5.9	23.9
Value				\$208,338,025	\$158,216,314	\$220,089,704	31.7	-5.3
Cotton-growing	State	s:						
Square yards				. 1,305,829,140	1,195,389,693	1,047,305,819	9.2	24.7
Value				. \$146,532,472	\$103,793,846	\$157,789,101	41.2	-7.1
New England:								
Square yards				329,035,866	352,571,097	271,009,722	-6.7	21.4
Value				\$50,158,249	\$45,870,133	\$52,966,997	9.3	-5.3
Lawns, Nainsook	s, C	ambr	ics an	ı				
Similar	Mus	lins						
United States:								
Square yards				367,209,215	392,203,289	417,893,406	-6.4	-12.1
Value				\$57,277,453	\$58,408,313	\$79,384,890	-1.9	-27.8
Cotton-growing S	State:	s:						
Square yards				87,501,636	78,278,961	43,966,453	11.8	99.0
Value				\$10,348,294	\$7,805,712	\$7,084,796	32.6	46.1
New England:								
Square yards				268,066,419	313,824,113	361,875,163	-14.6	-25.9
Value				\$46,371,298	\$50,501,560	\$70,318,534	-S.2	-34.1

Principal Classes of Cotton Goods produced by Sections, 1919, 1921 and 1923 — (Concluded)

				Incre. Decrea Ce:	
	1923	1921	1919	1921 to 1923	1919 to 1923
Twills, Sateens, etc.					
United States:					
Square yards	489,380,066	384,635,533	424,478,033	27.2	15.3
Value	\$91,589,275	\$51,834,924	\$101,056,691	76.7	-9.4
Cotton-growing States:	φυ 1,000,210	\$01,001,021	@101,000,001	10.1	3.4
Square yards	160,479,897	109,560,311	98,537.679	46.5	62.9
Value		\$13,993,289	\$27,338,840	127.0	16.2
New England:	6072,1110,020	\$10,000,230	\$21,000,0010	121	10.2
Square yards	288,703,542	234,427,583	289,461,382	23.2	-0.3
Value	\$52,894,403	\$33,453,605	\$66,724,057	58.1	-20.7
Tobacco, Cheese, Butter, Bunting and Bandage Cloths					
United States:					
Square yards	402,312,139	274,255,642	239,866,071	46.7	67.7
Value	\$20,110,478	\$10,023,745	\$16,976,323	100.6	18.5
Cotton-growing States:					
Square yards	137,418,047	98,068,082	23,226,060	40.1	491.7
Value	\$5,195,907	\$2,723,156	\$2,001,869	90.8	159.6
New England:	2511100415		207 220 27		
Square yards	254,833,147	153,374,313	205,660,877	66.2	23.9
Value	\$14,263,728	\$6,495,213	\$14,374,629	119.6	-0.8
Yarns for Sale					
United States:					
Pounds	620,725,267	484,218,907	618,034,098	28.2	0.4
Value	\$348,684,605	\$218,555,043	\$453,624,493	59.5	-23.1
Cotton-growing States:					
Pounds	451,634,879	347,875,291	359,003,634	29.8	25.8
Value	\$232,994,306	\$128,267,472	\$228,991,462	81.6	1.7
New England:					
Pounds	113,309,662	104,393,496	208,964,523	8.5	-45.8
Value	\$79,800,563	\$77,742,325	\$191,456,771	2.6	-58.3

Size of Cotton Manufacturing Establishments

[Based on Statistics of United States Bureau of the Census]

	 Establish- ments	Wage Earners	Wage Earners per Estab- lishment	Active Spindles (000 omitted)	Active Spindles per Estab- lishment	Looms	Looms per Estab- lishment
1879	756	172,544	228	10,653	14,091	225,759	298
1889	905	218,876	242	14,188	15,677	324,866	358
1899	1,055	302,861	287	19,051	18,058	450,682	427
1904	1,154	315,874	274	23,195	20,100	540,910	468
1909	1,324	378,880	286	27,426	20,715	632,963	477
1914	1,328	393,404	296	30,915	23,279	672,754	506
1919	1,496	446,852	299	33,796	22,591	692,169	462
1921	1,527	425,817	278	33,071	21,658	_ 1	_
1923	1,643	497,378	302	36,260	22,069	_1	_

¹ Not available.

United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed. The table on imports expressed in terms of value includes all the imports of manufactures of cotton.

	1915	1916	1918	1919	1920	1921	1922	1923	1924	1925
Cotton thread and yarn: Thread and yarns, warps or warp yarn, on beams, in skeins, etc. (pounds). Sowing thread, crochet, darning and knitting cotton (100 yards). Bleached (square yards). Bleached (square yards). Sheached (square yards). Dyacd in the piece (square yards). Dyacd in the piece (square yards). Printed (square yards). All other (square yards).	6,041,854 4,072,746 13,639,472 25,047,452	9,930,434 11,533,599 14,534,086 24,469,857 5,011,711 10,857,385	3,936,481 6,587,809 5,938,830 11,866,779 2,606,832 5,839,319	3,861,968 44,938,565 19,732,441 9,434,881 11,577,432 3,725,381 5,283,316	10,629,645 83,331,972 50,408,634 23,923,745 38,746,021 13,611,021 14,098,894	3,140,102 45,966,524 16,365,577 22,582,543 39,927,187 8,927,300 18,528,011	5,426,987 51,803,837 23,028,8391 17,863,6701 11,261,8964,470 11,261,89691 15,599,1981	5,209,354 42,326,041 95,186,1192 11,888,3052 108,895,8832 - 3	5,269,354 3,733,422 42,336,041 36,993,528 95,186,119* 114,729,968 11,888,305* 5,703,554 108,895,883* 55,952,132 -3	3,618,657 29,902,175 75,397,414 4,831,677 29,014,158
Total cloths (square yards) Laces, embroideries, etc., and articles made thereof (except wearing apparel): Embroideries, including edgings, insertings, and algons (wirds) Lace window curtains (square yards). Pilefabrics and Terry-woven fabrics (square yards) Tapestries and Jacquard figured upholstery goods (square yards) Waste or flocks (pounds) Wearing apparel: Kuit goods: Gloves (dozen pairs) Ilosiery (dozen pairs) All other kuit goods (dozens)	42,759,670 2,996,729 16,003,487 848,349	66,406,638 	32,839,509 	49,753,451 7,586,004 362,318 433,335 1,244,506 2,124,603 181,239 65,155 52,850	24,889,980 1,426,213 1,038,664 9,280,503 9,090,767 228,285 21,951	29,885,458 991,634 307,582 2,846,356 4,861,682 1,114,080 7,56,028 31,522	24,012,1091 1,729,422 121,7851 121,7851 121,7851 1,675,494 1,774,978 1,357,602 10,528	199,648,093 218,970,307 177,385,654 109,243,249 1,729,452 364,516 431,451 555,201 1,675,499,261 77,022,332 33,634,041 36,393,655 11,357,602 1,135,429 1,1357,602 1,1357,602 1,113,337 1,135,236 1,135,	177,385,654 1,363,581 431,451 1,224,372 33,634,041 1,364,980 530,839 1,05,823	-6 1,290,069 555,201 4 1,943,460 4 36,393,055 1,639,131 563,246 85,998

¹ January 1 to September 21, after which new tariff law is in effect.

Nore. — Where no figures are given for the earlier years (as for sewing thread, crochet, darning and knitting ectton prior to 1919) the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no imports of such items if no figures were given for these items separately.

Pounds only reported after September 21, 1922.
 Quantity not available.

³ Not separately classified under new tariff law.

United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1915	1916	1918	1919	1920	1921	1922	1923	1924	1925
Cotton thread and yarn: Thread and carded yarns, warps, or warp yarns, on beams, in skeins, etc.	83,315,350	\$7,378,667	\$6,338,487	\$7,031,356	825,418,196	\$3,752,332	\$6,038,543	\$5,666,886	\$4,488.991	85,316,498
Sewing thread, crochet, darning and knit- ting cotton	1	1	1	1,932,538	3,545,891	1,980,146	2,753,007	3,188,622	3,056,900	3,469,000
Cloths: Unbleached Bleached	\$393,144 2,023,766	\$1,203,915 2,446,987	\$2,223,962 1,860,397	\$5,402,862 3,318,675	\$13,748,108 9,168,582	\$2,916,817 5,830,112		\$18,287,386	\$21,889.138	\$15,122,983 1,581,366
Colored, dyed, printed, and woven-figured Dyed in the piece. Printed.	4,219,123	5,595,294 1,020,996 1,727,730	4,575,846 946,538 2,041,288	5,259,942 1,656,763 2,026,661	16,787,812 6,060,191 5,989,054	11,552,492 3,241,521 5,885,307	25,0,1,550	20,201,200	14,200,000	9,110,821
Total cloths Lace window curtains Laces and lace arricles, including lace e le-	\$6,636,333	\$11,994,922 \$571,410	\$11,648,031 \$142,911	\$17,664,903 \$194,520	\$51,753,747 \$1,097,903	\$29,426,249 \$567,474	\$39,073,450 \$767,786	\$47,188,033 \$722,878	\$37,703,416 \$517,896	\$26,421,126 \$173,014
ings, insertings, and galloons: Hand-made All other. Nets and nettings Veils and veilings	41,770 10,229,930 1,171,924 8,727	440,870 10,452,410 2,777,470 22,039	395,340 4,918,662 1,914,449 8,803	925,608 7,702,493 2,469,628 23,831	1,021,173 12,003,224 1,946,091 69,681	589,219 8,978,147 1,845,438 37,585	2,325,623 5,686,109 1,405,691	2,168,354 9,259,362 1,139,555	2,083,357 11,951,227 1,038,264	1,685,559 7,642,553 1,109,007
Total laces, etc. Pile fabrics and Terry-woven fabrics	\$19,753,031	\$20,451,984 \$2,018,593	\$8.872,428 \$354,356	\$13,909,116 \$593,147	\$24,300,149 \$1,115,295	\$16.703,583 \$256,295	\$14,451,585 \$245,887	\$17,043,228 \$899,837	\$20,105,883 \$933,782	\$14,602,694 \$1,165,570
Tapestries and Jacquard-figured upholstery goods Waste or flocks	686,535	1,471,951	94,123	426,550 216,878	3,355,811 $862,542$	1,781,969	1,145,595 $2,674,371$	1,196,207 6,727,755	1,947,198 3,244,346	3,276,685 3,726,692
Wearing apparel: Product of the Philippine Islands Knit goods	2,861,565	771,895	1,291,462	2,796,634	7,349,452	5,154,258	2,353,312 7,574,665	393,735	3,702,741	3,958,381
Gloves	909,142 1,952,123	135,721 636,174	134,663 1,156,799	309,894 135,574 370,778	1,545,657 908,829 186,020	3,271,500 1,358,434 189,504	2,141,124 73,087	4,054,415 1,326,247 370,623	4,240,735 1,409,318 291,102	293,843
Total manufactures of cotton	\$12,172,291	\$53,751,310	\$39,808,295	\$52,649,218	\$137,431,814	\$137,431,814 \$75,428,323	\$87,069,809	\$100,154,179	\$90,913,637	879,273,972
Not separately classified under new tariff law effective September 22, 1922.	I law effectiv	e September	r 22, 1922.	3 Not sep	³ Not separately classified under new tariff law; included with "nets and nettings."	ied under ne	w tariff law;	included wit	h "nets and	nettings."

 $^{^1}$ Not separately classified under new tariff law effective September 22, 1922. 2 "Includes veils and veilings."

United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed.

		1915	1917	1918	1919	1920	1921	1922	1923	1924	19251
State (maintain)											
Cloths (Tunning yarus). Duck:											
Unbleached	•	1	8,398,833	5,097,520	9,128,503	13,183,255	5,890,284	8,277,695	6,880,282	7,180,784	9,136,454
Bleached	•	\$	2,458,643	2,254,458	4,269,404	4,841,160	932,532	1,852,514	1,059,393	1,(85,747	1,717,388
Colored		ı	1,493,547	731,388	1,301,202	1,570,475	929,109	809,476	930,142	863,564	816,064
All other cloths:											
Unbleached		209,998,108 125,319,773	125,319,773	73,436,891	73,436,891 142,885,303	138,343,302	218,567,315	177,172,182	103,286,881	110 921,4:4	129,467,643
Bleached		69,914,986	143,198,426	99,227,003	126,349,050	184,368,835	83,676,191	99,681,739	77,635,357	82,458 805	92,937,823
Colored	٠	ı	ı	ı	ı	ı	ı	1	1	ı	ı
Printed		98,181,200	183,295,059	139,768,162	137,665,935 159,132,993	159,132,993	90,327,226	113,319,448	102,202,243	97 262,828	111,197,504
Dyed in the piece		38,740,820	105,419,979	133,174,426	156,051,890	156,051,890 178,489,420	83,913,351	101,467,669	194,577,461	93,955,175	107,344,997
Dyed in the yarn		101,503,188	195,037,632	90,484,726	105,394,039	138,821,514	67,101,267	84,911,809	72,662,000	81,(87,331	90,696,015
Total cloths	•	518,338,302	764,621,892	544,174,574	683,045,326	818,750,954	818,750,954	587,492,532	587,492,532 464,293,759	477,815,408	543,313,888
Mill waste (pounds)		44,789,174	62,259,352	46,868,332	57,317,920	57,877,150	39,002,394	58,572,181	55,986,852	65,616,568	77,048,181
Rags (except paper stock) (pounds) .	•	5,810,034	4,075,111	5,024,629	6,182,533	6,817,037	6,680,907	8,089,668	15,252,057	18,705,515	19,068,187
Hosiery (dozen pairs)		1	1	5,574,343	9,477,338	11,575,655	2,508,258	4,792,604	5,159,750	4,825,563	5,534,222
Yarn (pounds)		1	1	13,355,800	20,699,124	24,099,399	14,294,176	15,503,860	12,081,384	13,673,509	21,891,810

¹ Cloth exports are in square yards.

Nore. - Where no figures are given for the earlier years (as for unbleached, bleached, and colored duck prior to 1917) the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are given for these items separately.

United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1915	1917	1918	1919	1920	1921	1922	1923	1924	1925
Blankets	1	ſ	\$2,498,163	\$3,551,511	\$5,196,387	\$990,808	\$960,214	\$970,258	\$728,941	\$817,685
Duck: Unbleached	111	\$4,255,424 1,002,157 471,781	\$3,430,806 1,234,330 312,967	\$7,469,640 3,037,108 718,083	\$10,753,578 2,892,720 882,682	\$2,818,206 399,373 262,836	\$3,508,982 613,239 238,532	\$3,216,638 475,947 372,185	\$3,353,931 494,486 325,816	\$1,157,976 616,670 298,066
All other clouds: Unbleached	\$17,631,374 4,822,465	\$11,787,698 17,661,784	\$11,830,027 19,090,986	\$23,591,461 26,213,748	\$32,029,596 50,841,463	\$19,669,270 11,702,965	\$19,296,926 13,871,473	\$13,731,328 12,287,691	\$13,943,631 12,075,860	\$15,087,789 13,352,271
Colored Printed	5,646,294 3,360,508 7,272,941	18,559,148 15,460,989 26,281,686	21,628,277 30,073,042 19,918,898	23,205,902 40,665,903 27,095,972	38,584,777 58,854,461 43,224,280	10,575,603 15,505,740 10,640,069	14,802,468 18,111,287 14,789,205	15,196,072 19,679,792 14,353,149	13,925,536 18,082,158 16,003,459	14,921,031 20,320,460 16,257,049
Total cloths	\$38,733,582	\$95,480,667	\$107,519,333	\$151,997,817	\$238,153,557	\$71,573,875	\$85,232,112	\$79,357,337	\$78,204,877	\$85,011,312
Laces and embroideries Mill waste Rags (except paper stock) Thread, sewing, crocled, etc.	\$382,443 3,051,899 227,608	\$1,614,299 9,005,446 245,419	\$1,569,322 9,488,664 342,419 2,824,776	\$1,731,675 12,411,704 515,754 4,367,762	\$1,629,409 12,368,596 641,557 4,471,617	\$611,506 3,678,527 296,420 2,055,328	\$359,634 6,067,303 462,757 2,034,732	\$319,454 7,609,698 987,234 2,065,520	\$205,088 7,616,188 1,492,711 1,772,668	\$245,057 8,720,581 1,594,597 1,280,347
Mearing apparet: Collars and cuffs	1,937,742	1,552,161	329,227 1,923,078	2,880,858	816,142 3,583,767	341,789 1,695,555	348,646 1,924,036	463,415 1,745,581	770,823 1,902,745	683,373
Ant goods Hosiery Underwear All other knit goods	16,879,857	15,008,889	13,258,474 2,897,486 945,833 8,846,694	26,882,566 8,602,293 1,508,995 14,488,630	37,879,665 14,067,839 2,510,558 20,014,919	6,232,198 3,602,493 427,773 5,679,075	9,221,834 6,185,980 546,583 6,815,664	10,525,183 5,025,008 530,158 6,632,672	9,095,505 3,740,963 611,221 7,423,967	10,494,361 3,827,662 677,121 11,896,200
Total manufactures of cotton	\$95,833,456	\$158,818,816	\$181,029,486	\$273,115,704	\$402,041,277	\$117,234,542	\$138,701,617	\$138,045,354	\$132,710,741 \$118,238,446	\$118,238,446

Note.—Where no figures are given for the earlier years (as for blankets for the years prior to 1918) the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are

given for these items separately.

Conversely figures for certain classes of goods (as for all other cloths, colored, after 1914) are discontinued when this classification is broken up into several sub-classifications, all other cloths, colored, being subdivided into printed, dyed in the piece, and dyed in the yarn.

United States Imports of Cotton Manufactures, by Countries

[Statistics are for years ending June 30 from 1914 to 1919, inclusive, and for calendar years thereafter]

Source: United States Department of Commerce

COUNTRIES	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
Europe:										
United Kingdom	\$20,220,239	\$27,772,312	\$39,542,259	\$30,303,241	\$23,192,647	\$82,128,618	\$27,917,368	\$39,003,963	\$51,222,189	842,447,766
Germany .	10,140,775	1,991,717	53,500	ı	- 1	4,847,137	7,417,485	12,352,330	17,087,150	12,302,445
France	5,929,776	6,710,360	5,856,723	3,358,727	3,555,197	10,572,118	9,441,632	11,267,771	13,713,905	16,402,486
Switzerland	7,360,128	7,879,254	4,286,848	2,365,277	1,326,133	17,261,975	15,177,834	11,188,442	5,968,020	4,414,537
Belgium	230,703	28,342	9,695	1,431	621	861,740	424,198	692, 159	1,045,021	1,280,353
Austria	195,331 2	20,3412	I	1	Ĩ	-	-1	89,856	145,247	166,058
Italy	421,409	741,448	1,526,695	588,030	266,191	1,441,069	800,992	613,800	1,236,087	1,578,784
Zpain	115,810	72,272	90,595	68,017	23,751	60,055	046'29	55,748	102,192	54,052
Czechoslovakia	Î			l I	î Î	387,953	329,938	697,288	967,748	985,103
Turkey (including		i	·			900	000	000	1 1	000
Asiatic Turkey) .	25,353	2,796	ı	ı	-	104,803	55,328	22,118	93,775	18,082
All other Europe	187,495	235,161	286,394	186,733	301,245	2,220,696	958,069	1,030,548	925,430	832,894
Amonioon										
Canada	129,768	77,962	184,367	2,679,683	2,078,514	248,108	3.14,590	211,722	263,439	135,949
Mexico	35,088	34,649	90,814	15,250	11,035	454,352	78,365	22,146	100,897	46,430
All other America	13,227	6,337	7,796	46,063	3,037	12,134	8,851	20,088	30,469	48,016
Japan ,	1,156,104	1,861,382	3,844,581	4,280,957	1,363,512	7,062,960	3,731,293	4,157,448	3,894,760	3,123,072
China	28,767	198'19	3 10,691	769,279	456,128	2,118,254	3,038,915	2,846,280	2,548,556	2,464,848
British India	6,370	3,578	23,578	18,192	5,548	32,101	71,627	188,208	212,696	207,445
All other countries .	18,751	12,092	37,145	70,298	2,176,131	7,769,274	5,567,067	2,608,991	635,598	4,477,155
Total	\$46,205,123	\$47,511,870	\$56,181,684	\$44,751,181	\$34,762,723	\$34,762,723 \$137,583,347	\$75,430,495	\$87,069,809	\$100,153,179	\$90,913,641

¹ lucluded in "All other Europe,"

² Includes Hungary.

³ Included in Austria.

United States Exports of Cotton Manufactures, by Countries

[Statistics are for years ending June 39 from 1914 to 1919, inclusive, and for calendar years thereafter]

Source: United States Department of Commerce

Countries		1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
Europe: United Kingdom Germany All other Europe		\$23,694,368 117,311 6,287,823	\$26,706,477 1,468 11,537,916	\$10,775,950 - 9,507,287	\$10,070,789	\$12,796,195 -1 38,907,913	\$25,900,099 1,961,236 34,491,875	\$6,884,979 1,522,910 11,533,970	\$11,351,039 1,149,581 7,004,752	\$9,232,304 1,158,523 4,935,250	\$8,138,680 1,827,423 3,570,281
America: Canada Mexico Central America		9,771,888 2,260,834 1,982,498	18,274,627 4,891,956 4,561,658	28,264,480 11,011,886 8,004,905	27,981,121 18,606,003 4,877,986	30,555,383 11,057,043 10,123,223	40,526,138 12,452,319 19,664,743	18,207,778 13,703,906 8,800,540	20,510,062 6,795,751 9,812,808	19,204,728 6,701,495 9,882,329	16,381,203 7,272,995 11,530,092
Dritish west indies (includii muda) Cuba Haiti All other North America	ng Ber-		1,973,542 7,741,671 2,276,749 1,584,558	2,468,030 10,630,627 2,496,083 3,231,716	3,506,299 17,728,667 2,696,510 5,668,253	3,524,740 16,819,419 4,533,777 3,279,006	7,052,030 73,361,132 5,779,045 14,828,626	3,237,420 6,741,018 2,112,481 2,116,574	3,383,094 11,464,303 3,358,270 3,122,172		2,291,097 20,881,923 3,934,637 4,941,952
Brazil Chile Colombia Peru Venezuela All other South America		182,715 639,031 846,793 128,301 413,203 1,609,616	782,755 1,638,043 2,607,192 675,686 1,114,606 8,529,655	1,588,549 4,489,399 3,793,316 2,581,311 2,278,406 13,547,220	3,597,927 7,333,773 2,355,123 2,728,782 1,012,670 21,761,643	5,859,310 10,380,453 3,351,124 2,178,639 1,482,650 34,956,963	5,089,801 7,288,468 25,308,682 6,128,972 10,303,687 41,657,394	2,786,929 2,190,974 1,099,181 514,331 12,046,946	1,015,53 4,775,339 5,765,011 1,957,991 882,633 17,557,471	5,337,587 4,734,691 2,127,413 1,463,983 14,603,034	1,304,348 4,473,085 5,996,986 1,897,225 2,311,810 11,215,190
Asia and Oceania: China British India British Australasia Aden Philippine Islands All other Asia and Oceania		1,261,601 1,032,999 2,333,682 1,478,922 7,868,489 454,099	953,677 1,269,347 5,312,125 1,012,830 5,976,922 777,938	681,044 894,480 5,812,428 1,134,218 9,340,976 1,625,716	1,217,295 1,034,590 5,654,326 173,986 17,262,881 1,747,806	2,951,883 933,505 12,601,593 206,821 17,179,046 4,832,686	9,201,386 4,828,097 11,361,911 1,141,240 23,526,230 12,068,056	2,576,539 2,939,733 3,550,761 1,334,537 8,922,385 2,668,763	2,248,349 851,521 5,114,867 1,433,096 14,263,116 1,728,391	539,607 826,955 3,585,927 742,835 13,250,098 1,878,240	526,805 1,177,331 2,600,055 251,277 11,557,251 1,214,900
Africa		860,648	1,855,837	2,134,815	2,869,709	3,691,894	5,114,107	1,740,882	3,093,427	2,995,627	3,717,592
Total		\$71,685,259	\$112,053,235	\$136,299,842	\$169,378,223	\$232,206,566	\$102,041,277	\$117,234,542	\$138,701,617	\$138,045,354	\$132,710,711

¹ Included in "All other Europe."

United States Exports of Cotton Cloth during Calendar Years

Source: United States Department of Commerce

			YEA	R		 		Linear Yards
900								257,910,508
901								376,233,960
902								525,495,309
.903								374,074,192
904								434,989,686
.905								790,259,024
906							.	512,229,720
.907							.	216,387,642
908								272,242,179
909							.	380,521,971
910								295,736,336
911							.	410,200,201
912							.	464,253,126
913							.	$466,\!677,\!252$
914							.	326,477,889
915							.	518,338,302
916							.	$620,\!255,\!896$
917							.	764,621,892
918							.	544,174,574
919							.	683,045,326
920							.	818,750,954
921								551,512,942
922								587,492,532
923								464,520,397
924								477,815,408
925								543,313,888

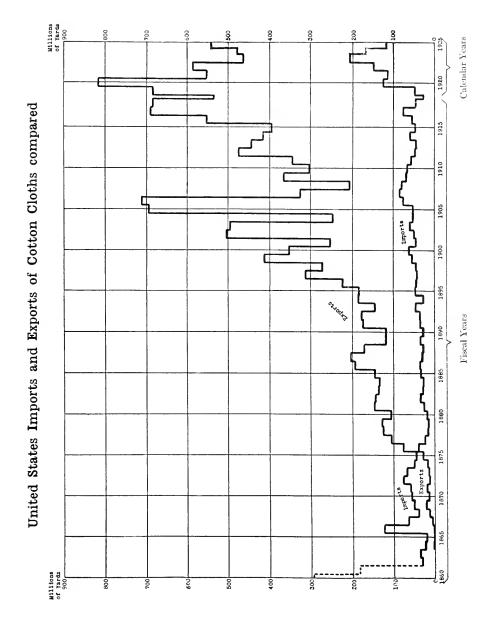
¹ Square yards.

United States Imports of Cotton Cloth during Calendar Years

Source: United States Department of Commerce

		 	Ϋ́E	AR				Square Yards
900								53,264,507
901								41,891,885
902							.	56,199,911
903								59,250,082
904								44,755,238
905								61,381,256
906								78,321,752
907								91,613,881
908								60,099,151
909								73,803,398
10							.	$55,\!276,\!921$
11							.	52,031,130
12							.	45,497,927
913							.	46,563,568
14							.	$62,\!272,\!013$
15								42,759,670
16								66,406,638
17								$65,\!296,\!802$
18								32,839,569
919							.	49,753,481
920								141,330,861
921							.	106,308,379
922								142,000,000
923								218,970,307
24								177,385,654
925								109,243,249

¹ Partly estimated, as imports of cotton cloth were reported in pounds only from September 22, 1922, to March 31, 1923.



United States Imports of Specified Cloths 1

Source: Bureau of Foreign and Domestie Commerce

Мочт	тн	Lawns, Organdies, Nainsooks, Cambrics, etc. (Square Yards)	Broadeloths and Poplins (Square Yards)	Sateens woven with not more than 7 Harnesses (Square Yards)	Sateens woven with S or more Harnesses (Square Yards)	Voiles (Square Yards)	Crepes (Square Yards)	Ginghams (Square Yards)	Ratines (Square Yards)	Jacquard- waven (Toths, Other than Swivels or Jappets (Square Yds.)	Dotted Swisses (Square Yards)
1924	34		1	ı		ı		1	ı		
February 2			1	1	1	1	1	1	1	ı	1
March .		539,253	6,261,566	3,608,264	69,624	1,715,269	400,035	431,792	448,690	424,311	214,810
April		573,910	5,868,201	3,110,957	39,472	1,270,502	066,004	365,989 61,515	502,421	250,127	935,633
May .		646.582	6.244.768	9,473,841	100,10	351,768	533.945	150.051	218.18	ナロサイーコ	20071
July		688,985	6,490,276	2,052,087	136,173	387,770	352,843	138,908	13,814	60,027	31,603
August .		723,761	5,317,978	1,748,942	472,340	311,474	324,897	141,129	21,389	36,355	19,111
September .		171,186	6,927,692	2,040,087	292,916	323,309	185,421	88,936	50,08 180,08	38,411	9,603
Jetober .		. 821,669	9,256,403	1,365,500	564,532	632,321	#15,006 #15,006	96,397	202,78	31,935	36,242
December .		1,296,395	12,394,819	1,156,575	352,335	815,282	834,456	140,887	62,036	SC(925)	29,863
Total .		7,972,646	73,937,203	20,679,362	2,953,210	7,056,979	4,889,455	1,706,032	1,450,754	1,246,899	895,921
1925	Ž.										
		1,067,511	14,558,003	1,233,238	291,021	524,021	662,565	115,831	91,503	811.76	41,816
February .		1,078,065	9,810,944	878,566	500 HTS	530,330	657,850	13.1 007	03,179 10,305	144,63 701	120, 12
April .		876.525	5.694.636	831.143	263,975	133,385	298,835	613,519	3.125	30,774	012.71
May .		988,886	3,454,120	411,927	292,834	465,365	396,412	68,81	932	35,106	12,972
Tune		770,240	2,199,380	309,335	220,541	465,990	197,089	35,481	26	48,621	7,410
Turky		. 782,471	2,062,481	168,755	264,605	383,778	207,08	234,840	1	48,930	9,231
August		. 520,346	1,938,369	142,037	254,607	244,414	65,957	69 ¹ 76	1,968	42,085	5,169
September .		. 925,396	2,755,876	180,803	125,516	254,573	76,733	101,681	Y()†'T	83,191	0.600
October .		. 1,433,682	3,754,415	188,224	250,400	600,333	105,359	103,733	1,721	40,796	13,567
November .		. 770,275	3,487,949	443,684	108,013	683,575	95,777	54,28S	10,434	S5,398	17 T
December .		. 1,368,001	3,280,588	343,738	191,122	879,870	224,569	82,194	677	83,147	11,368
Total .		. 11,746,259	63,396,109	5,993,559	2,794,161	5,552,482	3,332,556	1,259,655	197,398	736,237	211,569

These statisties do not include all types of cloths imported, and are collected at only the more important ports of the United States. The figures, however, amount to practically 90 per cent of the cloth imports for the period covered. ² Figures not available in comparable form.

British Exports of Cotton Cloth

Source: British Board of Trade

	_						YEAR								Yards
900															5,031,727,000
901	•					•	•	•	•	•	•	•		•	5,364,600,000
902	•				•										5,331,552,200
903	•	•										·	·		5,157,315,500
904	•	•	•			·						·			5,591,822,600
905															6,196,783,900
906	•	•			Ċ	Ċ						Ċ		Ċ	6,260,771,400
907	•	•	•						·			Ť.			6,297,707,90
908	•														5,530,808,50
909	•				·		Ċ				Ċ			Ċ	5,722,158,10
910	•								·						6,017,625,20
911	•	•				·				Ċ		Ċ			6,653,672,30
912	•	•	•		•	·			·						6,912,919,70
013	•	•	•	•	•		Ċ		Ċ	Ċ		·			7,075,252,00
914	•	•		•	•	·	·					·	·	•	5,735,744,50
915	•	•	٠	•		•	•						•		4,748,452,90
916	•	•	•	•	•	•	·	•				•	•	•	5,254,222,70
917	•	•	•	•	•	•	•			•		•	•		4,978,237,90
918	•		•	•	•	•	•	•	•	•	•	•	•	•	3,699,252,30
919	•	•		•	•	•	•		•	•	•	•	•	•	3,523,660,00
920^{-1}	•	•	•	•	•	•	•	•		•	•	•	•	•	4,435,405,00
921	•	•	•	•	•	•	•	•		•	•	•	•	٠	2,902,288,90
)22	•	•	•	•	•		•				•	•	•	•	4,183,729,10
923	•	•	•	•	•		•	•	•	•	•	•	•	•	4,140,231,90
924		•	•	•	•	•	•						•	•	4,443,959,50
924 - 925	•	•	•	•	•	٠		٠	•				•	•	4,433,745,30

¹ Beginning in 1920, figures are for square yards.

British Exports of Cotton Yarn

Source: British Board of Trade

				YEAR					Pounds
1900									158,272,900
1901								.	169,658,000
1902								.	166,360,90
1903									150,758,10
1904								.	163,901,40
1905								.	205,100,50
906									207,378,70
1907									241,076,70
1908									214,762,20
.909									215,223,40
910									191,629,10
911								.	223,834,40
912								.	243,850,40
913								.	210,099,00
914								.	178,496,80
915								.	188,169,20
916									172,170,60
917								.	133,151,30
918								.	101,711,40
919									162,816,60
920								.	147,432,40
921									145,894,90
922									201,953,00
923								.	145,017,40
924									163,056,40
925								.	189,532,10

High and Low Prices of Middling Upland Spot Cotton in New York

[In cents per pound]

Source: New York Cotton Exchange

The years as given are the official cotton seasons. Through 1913–14 the seasons were from September 1 to August 31. Starting with 1914–15 they have been from August 1 to July 31.

		 		SEA	son					High	Low
1900-01										12	$8\frac{1}{16}$
1901-02	·		·			·		·		$9\frac{7}{8}$	$7\frac{13}{16}$
1902-03										13.50	8.30
1903-04										17.25	9.50
1904-05									.	11.65	6.85
1905-06									.	12.60	9.85
1906-07									.	13.50	9.60
1907-08										13.55	9.90
1908-09									.	13.15	9.00
1909-10										16.45	12.40
1910-11									.	19.75	12.30
1911-12									.	13.40	9.20
1912-13										13.40	10.75
1913-14										14.50	11.90
1914-15										10.60	7.25
1915-16									.	13.45	9.20
1916-17										27.65	13.35
1917-18										36.00	21.20
1918-19										38.20	25.00
1919-20										43.75	28.85
1920-21										40.00	10.85
1921-22										23.75	12.80
1922-23										31.30	20.35
1923-24										37.65	23.50
1924 - 25										31.50	23.41

Highest and Lowest Prices paid for the Principal

	Low 19.95 20.00 20.22 23.28 23.96 26.10 26.77 27.50 26.06 23.60
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	19.95 20.00 20.22 23.28 23.96 26.10 26.77 27.50 26.06 23.60
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20.00 20.22 23.28 23.96 26.10 26.77 27.50 26.06 23.60
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20.00 20.22 23.28 23.96 26.10 26.77 27.50 26.06 23.60
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20.00 20.22 23.28 23.96 26.10 26.77 27.50 26.06 23.60
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20.22 23.28 23.96 26.10 26.77 27.50 26.06 23.60
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 23.28 \\ 23.96 \\ 26.10 \\ 26.77 \\ 27.50 \\ 26.06 \\ 23.60 \end{array}$
December 26.75 24.15 27.02 24.29 27.10 24.22 26.87 January, 1923 28.85 26.10 28.87 26.30 29.05 26.31 28.79 February 25.74 24.50 30.17 26.93 30.29 27.22 29.39 March 26.50 23.25 31.35 29.68 31.59 28.32 30.74 April 25.32 23.07 24.80 23.00 30.05 26.90 29.25 May 24.20 21.50 24.14 21.61 28.85 24.90 27.47 June 24.59 22.10 24.50 22.08 24.30 22.00 28.80 July 23.93 20.52 23.93 20.70 23.80 20.73 27.25 Season 28.85 19.98 31.35 20.00 31.59 20.00 30.74 August, 1923 24.98 20.73 25.05 20.80 25.02 20.77 24.70 </td <td>$\begin{bmatrix} 23.96 \\ 26.10 \\ 26.77 \\ 27.50 \\ 26.06 \\ 23.60 \end{bmatrix}$</td>	$\begin{bmatrix} 23.96 \\ 26.10 \\ 26.77 \\ 27.50 \\ 26.06 \\ 23.60 \end{bmatrix}$
January, 1923 28.85 26.10 28.87 26.30 29.05 26.31 28.79 February 25.74 24.50 30.17 26.93 30.29 27.22 29.39 March 26.50 23.25 31.35 29.68 31.59 28.32 30.74 April 25.32 23.07 24.80 23.00 30.05 26.90 29.25 May 24.20 21.50 24.14 21.61 28.85 24.90 27.47 June 24.59 22.10 24.50 22.08 24.30 22.00 28.80 July 23.93 20.52 23.93 20.70 23.80 20.73 27.25 Season 28.85 19.98 31.35 20.00 31.59 20.00 30.74 Season of 1923-24 24.98 20.73 25.05 20.80 25.02 20.77 24.70 September 29.12 24.30 29.10 24.43 29.17 24.43 28.40	$\begin{array}{c} 26.10 \\ 26.77 \\ 27.50 \\ 26.06 \\ 23.60 \end{array}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 26.77 \\ 27.50 \\ 26.06 \\ 23.60 \end{array}$
March . 26.50 23.25 31.35 29.68 31.59 28.32 30.74 April 24.80 .	$\begin{bmatrix} 27.50 \\ 26.06 \\ 23.60 \end{bmatrix}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$26.06 \\ 23.60$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23.60
June .	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25.39
Season 28.85 19.98 31.35 20.00 31.59 20.00 30.74 Season of 1923-24 August, 1923 24.98 20.73 25.05 20.80 25.02 20.77 24.70 September 29.12 24.30 29.10 24.43 29.17 24.43 28.40 October 30.48 26.52 30.48 26.55 30.48 26.59 29.93 November 37.05 29.60 37.11 29.65 37.23 29.60 36.50 December 36.56 32.45 36.78 32.90 36.90 33.00 35.95 January, 1924 35.25 32.15 35.50 32.37 35.65 32.60 34.58 February 27.85 25.20 34.67 28.15 34.97 28.52 33.60 March 25.37 22.85 29.40 26.44 29.70 26.45 28.97 April 25.04 23.02 25.06 23.19 31.95 27.95 30.45 May 26.25 23.00 26.87 <th< td=""><td>$\frac{23.59}{22.50}$</td></th<>	$\frac{23.59}{22.50}$
Season of 1923-24 24.98 20.73 25.05 20.80 25.02 20.77 24.70 September 29.12 24.30 29.10 24.43 29.17 24.43 28.40 October 30.48 26.52 30.48 26.55 30.48 26.59 29.93 November 37.05 29.60 37.11 29.65 37.23 29.60 36.50 December 36.56 32.45 36.78 32.90 36.90 33.00 35.95 January, 1924 35.25 32.15 35.50 32.37 35.65 32.60 34.58 February 27.85 25.20 34.67 28.15 34.97 28.52 33.60 March 25.37 22.85 29.40 26.44 29.70 26.45 28.93 May 26.25 23.00 26.37 23.25 32.30 29.25 30.02 June 26.50 23.83 26.65 23.97 26.25 24.04 30.50	
August, 1923 . 24.98 20.73 25.05 20.80 25.02 20.77 24.70 September . 29.12 24.30 29.10 24.43 29.17 24.43 28.40 October . . 30.48 26.52 30.48 26.55 30.48 26.59 29.93 November . . 37.05 29.60 37.11 29.65 37.23 29.60 36.50 December . 36.56 32.45 36.78 32.90 36.90 33.00 35.95 January, 1924 . 35.25 32.15 35.50 32.37 35.65 32.60 34.58 February . 27.85 25.20 34.67 28.15 34.97 28.52 33.60 March . 25.37 22.85 29.40 26.44 29.70 26.45 28.97 April . . 25.04 23.02 25.06 23.19 31.95 27.95 30.45 May . . 26.25 23.00 26.	19.95
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	22.05
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24.13
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	26.05
January, 1924 . 35.25 32.15 35.50 32.37 35.65 32.60 34.58 February . 27.85 25.20 34.67 28.15 34.97 28.52 33.60 March . 25.37 22.85 29.40 26.44 29.70 26.45 28.97 April . . 25.04 23.02 25.06 23.19 31.95 27.95 30.45 May . . 26.25 23.00 26.37 23.25 32.30 29.25 30.02 June . . 26.50 23.83 26.65 23.97 26.25 24.04 30.50	29.30
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	32.30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	31.52
April . . . 25.04 23.02 25.06 23.19 31.95 27.95 30.45 May . . . 26.25 23.00 26.37 23.25 32.30 29.25 30.02 June . . . 26.50 23.83 26.65 23.97 26.25 24.04 30.50	28.02
April . . . 25.04 23.02 25.06 23.19 31.95 27.95 30.45 May . . . 26.25 23.00 26.37 23.25 32.30 29.25 30.02 June . . . 26.50 23.83 26.65 23.97 26.25 24.04 30.50	25.85
June 26.50 23.83 26.65 23.97 26.25 24.04 30.50	26.90
	27.55
July $28.98 \pm 22.98 \pm 29.06 \pm 23.17 \pm 29.15 \pm 23.30 \pm 35.40 \pm 20.00$	27.75
20.00 20.00 20.00 20.00 20.00	28.50
Season 37.05 20.73 37.11 20.80 37.23 20.77 36.50	22.05
Season of 1924–25	
August, 1924 28.38 23.74 28.64 24.05 28.72 24.23 27.50	23.75
September 25.25 21.20 25.45 21.50 25.62 21.72 25.25	21.40
October 25.95 22.18 26.20 22.50 26.40 22.70 26.00	22.45
November 25.14 22.63 25.45 22.95 25.77 23.18 25.44	22.98
December 24.73 22.66 25.15 23.05 25.50 23.40 25.51	23.51
January, 1925 24.55 23.30 24.83 23.06 25.13 23.39 25.25	23.61
February 25.33 24.00 25.38 23.85 25.65 24.19 25.88	24.43
March 25.45 23.74 25.98 24.92 26.25 24.22 26.38	24.50
April	23.92
May	21.70
June	22.40
July	22.70
Season 28.38 21.20 28.64 21.50 28.72 21.65 27.50	21.40

Options on the New York Cotton Exchange

	UST VERY	SEPTE DELI	MBER VERY		OBER VERY		MBER VERY	DURING MONTH OF -
High	Low	High	Low	High	Low	High	Low	Demind Month of —
22.65	20.50	$\frac{22.68}{21.25}$	20.17 20.84	23.00 22.86	20.00 20.00	23.00 23.05	$20.05 \\ 20.26$	Season of 1922–23 August, 1922 September
$\frac{-}{25.04}$	23.85	24.90	- 23.20	23.95 24.30	$\begin{bmatrix} 20.15 \\ 22.60 \end{bmatrix}$	24.55 26.80	$\begin{bmatrix} 20.50 \\ 23.88 \end{bmatrix}$	October November
$\frac{25.04}{25.30}$	$\frac{23.33}{24.30}$	25.00	$\frac{25.20}{25.00}$	24.89	$\frac{22.50}{22.51}$	26.20	$\begin{bmatrix} 23.03 \\ 24.05 \end{bmatrix}$	December
28.25	25,83	27.00	25.12	26.77	24.38	26.48	24.31	January, 1923
28.35	26.50	26.82	25.85	26.32	24.74	25.95	24.50	February
29.62	26.78	27.45	24.85	27.20	24.40	26.82	23.87	March
28.00	25,37	26.43	24.40	26.17	23.75	25.60	23.28	April
$\frac{26.65}{20.00}$	22.90	25.05	22.85	24.98	$\frac{22.12}{22.70}$	24,48	$\begin{vmatrix} 21.78 \\ 22.33 \end{vmatrix}$	May
$\frac{28.20}{26.25}$	24.75	$26.07 \\ 25.00$	$\begin{array}{c} 23.70 \\ 21.15 \end{array}$	$\begin{vmatrix} 25.50 \\ 24.60 \end{vmatrix}$	$\frac{22.70}{20.82}$	24.93 24.15	$\frac{22.55}{20.68}$	June July
20.20	20.85	20.00	21.10	24.00	20.82	24.10	20.08	amy
29.62	20.50	27.45	20.17	27.20	20.00	26.82	20.05	Season
			22.00		24 0			Season of 1923–24
25.46	21.40	25.25	22.80	25,35	21.07	25.27	20.92	August, 1923
		30.30	24.63	$\frac{30.30}{20.00}$	24.68	29.90	24.61	September
28.35	26.97	27.60	25.00	31.30	27.45	31.05	$\begin{vmatrix} 27.12 \\ 30.28 \end{vmatrix}$	October November
34.50	$\begin{bmatrix} 27.90 \\ 29.90 \end{bmatrix}$	$31.00 \\ 30.65$	$27.90 \\ 27.82$	$30.00 \\ 29.64$	$\frac{26.27}{27.00}$	$37.70 \\ 37.15$	33.20	December
$33.60 \\ 32.00$	$\frac{29.90}{29.50}$	$\frac{50.05}{29.50}$	28.35	$29.04 \\ 28.83$	$\frac{27.00}{27.64}$	$\frac{37.10}{28.40}$	$\frac{55.20}{27.20}$	January, 1924
30.40	$\frac{29.30}{27.30}$	$29.50 \\ 28.70$	$\frac{26.59}{26.60}$	$\frac{28.85}{28.87}$	$\frac{27.04}{25.80}$	$\frac{28.40}{28.25}$	$\begin{bmatrix} 27.20 \\ 25.45 \end{bmatrix}$	February
27.89	$\frac{27.30}{25.35}$	$\frac{26.70}{26.50}$	$\frac{20.00}{24.20}$	$\frac{26.37}{26.17}$	$\frac{23.30}{23.45}$	25.74	$\frac{23.45}{23.15}$	March
$\frac{21.30}{28.20}$	$\frac{25.50}{25.50}$	26.88	$\frac{24.20}{24.95}$	$\frac{56.11}{26.01}$	$\frac{23.13}{23.87}$	25.40	$\frac{23.30}{23.30}$	April
$\frac{28.25}{28.05}$	26.00	27.70	$\frac{51.50}{24.50}$	$\frac{20.01}{27.22}$	23.84	$\frac{26.38}{26.38}$	23.28	May
28.15	$\frac{26.10}{26.10}$	26.75	25.38	27.50	24.70	26.75	24.02	June
30.30	25.85	29.50	24.60	29.97	23.74	29.10	23.11	July
34.50	21.40	31.00	22.80	31.30	21.07	37.70	20.92	Season
								Season of 1924–25
28.50	25.80	28.59	24.27	29.23	24.05	28.53	23.75	August, 1924
_	-	24.55	23.60	26.25	21.50	25.20	21.17	September
23.25	22.45	22.67	21.80	26.68	22.61	25.90	22.09	October
24.78	23.00	24.00	22.20	24.20	21.50	24.95	22.55	November
25.00	24.10	25.05	22.95	24.85	22.52	23.80	22.52	December
$\frac{24.10}{25.56}$	23.97	$\begin{array}{c} 24.32 \\ 25.24 \end{array}$	24.32	$\left[\begin{array}{c}24.39\\25.51\end{array}\right]$	$\begin{vmatrix} 23.40 \\ 24.17 \end{vmatrix}$	$\begin{vmatrix} 24.31 \\ 25.55 \end{vmatrix}$	$23.36 \\ 24.20$	January, 1925 February
$\frac{25.56}{25.78}$	$24.60 \\ 25.18$	$25.24 \\ 25.68$	25.08 25.13	$\begin{bmatrix} 25.51 \\ 25.71 \end{bmatrix}$	$\frac{24.17}{23.92}$	$25.50 \\ 25.72$	$\frac{24.20}{23.93}$	March
$\frac{25.78}{25.07}$	$\begin{array}{c c} 25.18 \\ 24.03 \end{array}$	25.08	$\frac{25.15}{24.10}$	$25.71 \\ 25.15$	$\frac{25.92}{23.65}$	$\frac{25.72}{25.25}$	$\frac{25.95}{23.82}$	April
$\frac{23.07}{23.60}$	$\frac{24.05}{21.75}$	$\frac{23.20}{24.20}$	$\frac{24.10}{21.75}$	24.04	$23.65 \\ 21.55$	$\frac{23.23}{24.24}$	$\frac{23.32}{21.72}$	May
$\frac{23.00}{24.12}$	$\frac{21.79}{22.00}$	23,83	$\frac{21.76}{22.20}$	24.04 24.17	$\frac{21.85}{21.87}$	24.25	$\frac{51.75}{22.07}$	June
25.04	$\frac{22.78}{22.78}$	$\frac{23.86}{24.86}$	23.00	25.55	$\frac{5}{22.81}$	25.70	$\frac{52.95}{22.95}$	July
28.50	21.75	28.59	21.75	29.23	21.50	28.53	21.17	Season

Comparative Prices of Foreign Cotton

[January 1 quotations at Liverpool]

Pence per pound

		1926	1925	1924	1923	1914
American, middling .		9.81	13.57	21.06	15.40	7.15
Egyptian:						
FGF Sak		17.00	30.15	24,50	17.80	10.55
FGF Upper .		14.30	19.80	22.60	_	_
FGF Brown .		15.40	22.10	23.10	_	_
Indian:						
Fine Broach .		8.85	12.45	18.00	13.00	6.62
Fine Oomra, No. 1		8.35	12.40	16.10	11.25	6.12
Fine Bengal .	.	7.75	11.90	14.70	9.20	5.46
Fine Surtee .		9.30	13.20	18.60	 	_
South American:						
Fair Peruvian .	.	14.00	14.82	21.46	15.05	7.34
Fair Parahyba .		10.31	14.82	20.83	_	_
T1 : 6 T1		9.31	13.82	20.38		_

Monthly High and Low Prices of Middling Upland Spot Cotton at New York

Source: New York Cotton Exchange

	1917	1917-18	1918-19	-19	1919-20	-20	1920-21	1-21	1921-22	-22	1922-23	-23	192	1923-24	192	1924-25
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
Anoust	28.00	23.10	37.30 29.70	29.70	35.70	35.70 30.55	40.00	31.75	16.60 12.80		23.20	20.35	26.35	23.50	31.50	25.90
September	26.30	21.20	38.20	32.65	32.85	28.85	32.25	25.50	21.55	17.50	22.25	20.35	30.75	25.95	26.10	22.15
October	29.90	25.25	34.45	30.20	38.55	31.10	25.25	20.50	21.35	18.50	24.35	20.45	31 80	28.20	26.90	22.50
November	31.25	28.75	_	31.60 27.75	40.20	38.40	22.50	22.50 15.50	$19.00 \mid 16.70$	16.70	26.80	24.45	37.60	31.25	24.85	23.60
December	31.85	29.85	33.00	33.00 27.50	40.25	40.25 38.00	16.70	16.70 14.50	19.45	17.50	26.80	24.55	37.65	37.65 33.70	24.90	23.15
January	33.30	31.50	_	32.40 25.60	39.75	39.75 38.75	18.25	18.25 14.30	19.05	16.45	28.75	26.45	35.70		24.30	23.45
February	32.65	31.20	27.85	25.00	40.10	37.55	14.20	14.20 11.25	18.85	16.85	.30.15	27.40	34.85	<u>8</u>	25.35	24.25
March	35.05	32.70	28.70	26.10	43.25	40.25	12.55	12.55 11.20	18.70	17.80	$31.30 \mid 28.75$	28.75	29.25	26.80	26.05	24.60
April	36.00	26.75	29.65	28.30	43.25	41.25	12.45	11.65 18.35	18.35	17.75	30.05	27.30	31.65	31.65 28.50		24.00
May	30.10	25.70	34.00	28.75	43.00	43.00 40.00	13.15	13.15 12.45	21.80 18.95	18.95	28.90	28.90 25.30	32.85	32.85 30.05	24.40	22.20
June	32.30	29.00	34.95	30.35		40.00 37.75	12.95	12.95 10.85	23.30	20.75	29.90	$29.90 \mid 27.25$	32.75	28.75	24.80	23.35
July	34.10		36.60	33.40	43.75 39.25	39.25	12.85	12.85 11.95	23.75	21.45	28.05	22.45	35.30	29.60	25.90	23.80
Season .	36.00	36.00 21.20		38.20 25.00	43.75 28.85	28.85	40.00	40.00 10.85	23.75	23.75 12.80	31.30	20.35	37.65	37.65 23.50	31.50	22.15

Prices of Extra Staple Cotton, 1925

Source: Daily News Record

				AMERICAN	STAPLES	J	I	EGYPTIANS	3 1		n n	m .	New
			1 <u>1</u> -Inch	113-Inch	1≟-Inch	116-Inch	Uppers Medium	Saks'— Medium	Saks'— Iligh Grade	Pima ² No. 2	vian 1	Tanguis Strict Middling	York
Jan. 2 Jan. 6 Jan. 21 Jan. 24 Jan. 27 Jan. 29			$\begin{array}{c} 30\frac{1}{2} - 31\frac{1}{2} \\ 31\frac{1}{2} - 32 \\ 30\frac{1}{2} - 31\frac{1}{2} \\ 31 - 31\frac{1}{2} \\ 31\frac{1}{2} - 32\frac{1}{2} \\ 32 - 33 \end{array}$	$\begin{array}{c} 31\frac{1}{2} - 32\frac{1}{2} \\ 32\frac{1}{2} - 33 \\ 32 - 33 \\ 32 - 33 \\ 33 - 34 \\ 33 - 34\frac{1}{2} \end{array}$	$\begin{array}{c} 33 & -34\frac{1}{2} \\ 33\frac{1}{2} - 35 \\ 34 & -36 \\ 34 & -36 \\ 35 & -37 \\ 35\frac{1}{2} - 37\frac{1}{2} \end{array}$	$ \begin{array}{c} 37 \\ 36 \\ 39 \\ 39 \\ 39 \\ 40 \end{array} $	$\begin{array}{r} 36 & -37\frac{1}{2} \\ 36 & -37\frac{1}{2} \\ 37\frac{1}{2} - 39 \\ 38\frac{1}{2} - 43 \\ 38 & -42 \\ 38 & -41 \end{array}$	$58 - 60$ $58\frac{1}{2} - 60$ $56\frac{1}{2} - 59$ $61 - 64$ $61 - 63$ $62 - 65$	60 63 62 66 66 66	60 4 60 4 60 4 60 4 60 4 60 4	$\begin{array}{c} 38\frac{1}{2} - 40\frac{1}{2} \\ 38\frac{1}{2} - 41 \\ 40 - 42 \\ 39\frac{1}{2} - 42 \\ 39\frac{1}{2} - 42 \\ 39\frac{1}{2} - 42 \end{array}$	37 37 37 37 37 37 37	24.20 24.20 24.00 23.55 23.65 23.95
Feb. 2 Feb. 11 Feb. 18 Feb. 24 Feb. 26	:		$\begin{array}{c} 31 & -32 \\ 32\frac{1}{2} - 33\frac{1}{2} \\ 33\frac{1}{2} - 34\frac{1}{2} \\ 33 & -34 \\ 33\frac{1}{2} - 34\frac{1}{2} \end{array}$	$\begin{array}{r} 32 & -33\frac{1}{2} \\ 33\frac{1}{2} - 35\frac{1}{2} \\ 34\frac{1}{2} - 35\frac{1}{2} \\ 34 & -35 \\ 34\frac{1}{2} - 35\frac{1}{2} \end{array}$	$36 -38$ $36\frac{1}{2} -38\frac{1}{2}$ $38 -40\frac{1}{2}$ $38\frac{1}{2} -40$ $39 -40\frac{1}{2}$	$\begin{array}{c} 40 \\ 40 \\ 41\frac{1}{2} \\ 42 \\ 42 \end{array}$	$\begin{array}{c} 37 - 40 \\ 38\frac{1}{2} - 40\frac{1}{2} \\ 36\frac{1}{2} - 39 \\ 36 - 39 \\ 36 - 39 \end{array}$	64 -68 66 -69 56 -62 60 -68 60 -68	70 73 64 70 70	60 ⁴ 60-65 60 ⁴ 60 ⁴	$ 38 -41 $ $ 39\frac{1}{2} -41 $ $ 38 -41 $ $ 38 -41 $ $ 38 -40\frac{1}{2} $	37 38 38 38 38 38	24 50 24 55 24 70 24 80 25 35
Mar. 3 Mar. 6 Mar. 10 Mar. 17 Mar. 24 Mar. 31			$\begin{array}{r} 33\frac{1}{2} - 34\frac{1}{2} \\ 34 - 35 \\ 34 - 35 \\ 34\frac{1}{2} - 35 \\ 31 - 35\frac{1}{2} \\ 34\frac{1}{2} - 35 \end{array}$	$\begin{array}{r} 35 - 36 \\ 35\frac{1}{2} - 36\frac{1}{2} \\ 35 - 36 \\ 35\frac{1}{2} - 37 \\ 35\frac{1}{2} - 37 \\ 35 - 36\frac{1}{2} \end{array}$	$\begin{array}{c} 39\frac{1}{2} - 40\frac{1}{2} \\ 39\frac{1}{2} - 41 \\ 39\frac{1}{2} - 41\frac{1}{2} \\ 41 - 43 \\ 39\frac{1}{2} - 42 \\ 42 - 43\frac{1}{2} \end{array}$	$\begin{array}{c} 42 \\ 42\frac{1}{2} \\ 43\frac{1}{2} \\ 45 \\ 44 \\ 45 \end{array}$	$\begin{array}{r} 36\frac{1}{2} - 39 \\ 37\frac{1}{2} - 40 \\ 37\frac{1}{2} - 41 \\ 38 - 42 \\ 39 - 42 \\ 38 - 40\frac{1}{2} \end{array}$	62 -69 63 -71 62 -70 62 -70 66 -67 62 -74	70 73 73 80 87 84	60 ⁴ 60 ⁴ 65-68 ⁴ 70 ⁴ 70 ⁴	$ \begin{array}{r} 38 -41 \\ 38 -41\frac{1}{2} \\ 38 -41\frac{1}{2} \\ 39 -41\frac{1}{2} \\ 39 -41\frac{1}{2} \\ 39\frac{1}{2} -42 \end{array} $	38 38 38 38 38 39 38	26.05 25.95 26.05 25.60 25.50 24.80
Apr. 4 Apr. 9 Apr. 13 Apr. 25 Apr. 28			$\begin{array}{c} 34\frac{1}{2} - 35\frac{1}{2} \\ 33\frac{1}{2} - 34\frac{1}{2} \\ 34 - 35 \\ 34\frac{1}{2} - 35 \\ 34 - 35 \end{array}$	$\begin{array}{c} 35\frac{1}{2} - 36\frac{1}{2} \\ 35\frac{1}{2} - 36\frac{1}{2} \\ 35\frac{1}{2} - 36\frac{1}{2} \\ 36\frac{1}{2} - 37\frac{1}{2} \\ 36\frac{1}{2} - 37\frac{1}{2} \end{array}$	$\begin{array}{c} 41\frac{1}{2} - 43 \\ 41 - 43 \\ 42 - 43\frac{1}{2} \\ 39\frac{1}{2} - 42 \\ 40 - 42\frac{1}{2} \end{array}$	44½ 44 44 45 45	$\begin{array}{c} 37\frac{1}{2} - 40 \\ 37 - 39 \\ 37 - 38\frac{1}{2} \\ 37\frac{1}{2} - 38\frac{1}{2} \\ 37 - 39 \end{array}$	62 -72 60 -65 62 -68 62 -68 62 -68	82 78 75 72 72	70 ⁴ 65 ⁴ 65 ⁴ 65 ⁴ 65 ⁴	$\begin{array}{r} 40 & -42\frac{1}{2} \\ 39 & -41 \\ 39 & -42 \\ 40 & -43 \\ 40 & -43 \end{array}$	37 38 38 38 38 38	24.40 24.40 24.40 24.45 24.00
May 1 May 9 May 19 May 26 May 28		 	34 -35 34 -35 32 -32½ 32 -33 31½-32½	$\begin{array}{c} 36\frac{1}{2} - 37\frac{1}{2} \\ 35 - 37 \\ 33\frac{1}{2} - 34\frac{1}{2} \\ 33\frac{1}{2} - 35 \\ 33\frac{1}{2} - 34\frac{1}{2} \end{array}$	$\begin{array}{c} 40 - 42 \\ 38\frac{1}{2} - 41\frac{1}{2} \\ 38\frac{1}{2} - 40\frac{1}{2} \\ 39\frac{1}{2} - 40\frac{1}{2} \\ 39 - 40 \end{array}$	$\begin{array}{c} 45 \\ 44 \\ 41\frac{1}{2} \\ 42\frac{1}{2} \\ 42\frac{1}{2} \end{array}$	37 -39 37 -39 35 -37 35 -36 <u>2</u> 34 -36	62 -67 64 -68 62 -66 63 -64 62 -66	70 74 68 70 68	65 4 65 4 65 4 65 4 65 4 65 4	$\begin{array}{r} 40 - 43 \\ 40 - 43 \\ 39 - 42 \\ 39\frac{1}{2} - 42 \\ 39\frac{1}{2} - 42 \end{array}$	38 38 38 ¹ / ₂ 36 ¹ / ₂ 36 ¹ / ₂	24 40 23.30 23.40 23.95 23.75
June 1 June 8 June 13 June 23 June 30		 	$\begin{array}{c} 31\frac{1}{2} - 32\frac{1}{2} \\ 32 - 33 \\ 31 - 32 \\ 32 - 33 \\ 33\frac{1}{2} - 34\frac{1}{2} \end{array}$	$\begin{array}{r} 34 & -35\frac{1}{2} \\ 33\frac{1}{2} - 35 \\ 33\frac{1}{2} - 35 \\ 33\frac{1}{2} - 31\frac{1}{2} \\ 34\frac{1}{2} - 35\frac{1}{2} \end{array}$	$\begin{array}{c} 39 & -40\frac{1}{2} \\ 37\frac{1}{2} - 39\frac{1}{2} \\ 36 & -38 \\ 37\frac{1}{2} - 38\frac{1}{2} \\ 38 & -39 \end{array}$	$\begin{array}{c} 42 \\ 40 \\ 38\frac{1}{2} \\ 39 \\ 39\frac{1}{3} \end{array}$	$\begin{array}{r} 34 - 35 \\ 32 - 34 \\ 32 - 34 \frac{1}{2} \\ 33 \frac{1}{2} - 35 \frac{1}{2} \\ 34 \frac{1}{2} - 36 \end{array}$	$\begin{array}{c} 61 - 66 \\ 60 - 66 \\ 60 - 65 \\ 62\frac{1}{2} - 66 \\ 64 - 66 \end{array}$	68 72 70 70 70	65 4 65 4 65 4 65 4 65 4	$\begin{array}{c} 39 & -42 \\ 40 & -42\frac{1}{2} \\ 40 & -43 \\ 41 & -44 \\ 41 & -44 \end{array}$	$\begin{array}{c} 36\frac{1}{2} \\ 35\frac{1}{2} \\ 35\frac{1}{2} \\ 35\frac{1}{2} \\ 38 \end{array}$	23.65 23.55 23.80 24.20 24.80

¹ New Bedford basis.

² New England basis. ³ New York basis.

⁴ Nominal.

Prices of Extra Staple Cotton, 1925 -- (Concluded)

Source: Daily News Record

			American	STAPLES	1	ŀ	GYPTIANS	, 1		, n		New
		1½-Inch	1 ₁₆ -Inch	1½-inch	1 ₁₆ -Inch	Uppers Medium	Saks'— Medium	Saks'— High Grade	Pima ² No. 2	Peru- vian ¹ Mitafifi	Tanguis: Strict Middling	York
July 8 . July 18 .		32½-34 32 -33	$ \begin{array}{r} 34 & -35\frac{1}{2} \\ 34 & -35 \end{array} $	39 -41 ¹ / ₂ 38 -39 ¹ / ₂	$\frac{41\frac{1}{2}}{39\frac{1}{2}}$	$ \begin{array}{r} 34\frac{1}{2} - 36\frac{1}{2} \\ 34 - 36 \end{array} $	62 -67 62 -66	70 67	65 65 55 4	$\begin{array}{c} 41\frac{1}{2} - 44\frac{1}{2} \\ 41 - 44 \end{array}$	38 38	$24.65 \\ 24.50$
July 22 .		311-32	$32\frac{1}{2} - 33\frac{1}{2}$	$36\frac{1}{2} - 38$	381	34 -36	62 -65	66	68s 54 4	41 -44	38	24.10
July 28 .		33 -34	341-35	$37\frac{1}{2} - 39$	391	35 -37	64 -68	69	68s 54 ⁴	4112-45	38	25.55
July 31 .		32 -321	33 -34	37 -38	39	341-361	62 -65	67	66s	41 -44	38	24.85
Aug. 8 .		301-32	32 -35½	36 -38	38	35 -37	64 -66	69	54 ⁴ 67s 54 ⁴	41 -44½	38	24 35
Aug. 14 .		32 -33	33 -34	38 -392	4112	35 -37	66 -68	70	65s 54 4	401-44	38	23.75
Aug. 19 . Aug. 22 .	:	30 -31 29 -30	$31\frac{1}{2} - 32$ $30^{\circ} - 31$	$35\frac{1}{2} - 37$ $33 - 34$	$38 - 39 \ 35\frac{1}{2} - 36\frac{1}{2}$	35 -37 35 -36	66 -68 66 -68	70 693	65s 65s	42 -44 39	38 38	$23.60 \\ 23.65$
Aug. 29 .		281-30	30 -301	33 -341	351	341-36	67 -68	69	53 ⁴ 65s	39½-41	38	22.60
Sept. 5 . Sept. 8 . Sept. 12 . Sept. 14 . Sept. 25 . Sept. 29 .		$\begin{array}{c} 28\frac{1}{2} - 29\frac{1}{2} \\ 27\frac{1}{2} - 28\frac{1}{2} \\ 29 - 30 \\ 28\frac{1}{2} - 30 \\ 30 - 30\frac{1}{2} \\ 29\frac{1}{2} - 30 \end{array}$	30 -31 30 -31	$\begin{array}{r} 33 -34\frac{1}{2} \\ 31\frac{1}{2} -32\frac{1}{2} \\ 34 -35\frac{1}{2} \\ 34 -35\frac{1}{2} \\ 34 -35 \\ 34\frac{1}{2} -36 \end{array}$	$\begin{array}{c} 35 \\ 34 \\ 36\frac{1}{2} \\ 36\frac{1}{2} \\ 37 \\ 36\frac{1}{2} \end{array}$	$ 34 -36 33\frac{1}{2} -34 34 -35\frac{1}{2} 34 -35 34 -35 34 -35$	$\begin{array}{r} 48 -50 \\ 47\frac{1}{2} -48 \\ 53 -55 \\ 50\frac{1}{2} -51 \\ 50 -52 \\ 49 -51\frac{1}{2} \end{array}$	51 50 56 52 54 53	51 54 55 54 56 56	$\begin{array}{r} 39 & -41\frac{1}{2} \\ 39 & -40 \\ 39\frac{1}{2} -42 \\ 39\frac{1}{2} -42 \\ 39 & -41\frac{1}{2} \\ 39 & -42 \end{array}$	37 37 37	23.30 24.25 24.75 23.90 23.50
Oet. 5 . Oet. 15 . Oet. 17 . Oet. 23 . Oet. 27 . Oet. 30 .		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{r} 28 - 29 \\ 28 \frac{1}{2} - 29 \frac{1}{2} \\ 28 \frac{1}{2} - 29 \end{array} $	$\begin{array}{c} 33 - 34\frac{1}{2} \\ 31\frac{1}{2} - 34 \\ 31\frac{1}{2} - 33\frac{1}{2} \\ 33\frac{1}{2} - 35\frac{1}{2} \\ 33 - 34 \\ 32\frac{1}{2} - 34 \end{array}$	361	$\begin{array}{r} 34 & -35 \\ 31\frac{1}{2} - 33 \\ 32 & -33 \\ 32\frac{1}{2} - 33\frac{1}{2} \\ 31 & -32 \\ 31 & -32\frac{1}{2} \end{array}$	42 -44	$49\frac{1}{2}$ 49 49 46 46 45	55½ 51 51 51 53 51	$\begin{array}{r} 39 & -41\frac{1}{2} \\ 39 & -41 \\ 39\frac{1}{2} -42 \\ 39 & -41 \\ 39 & -41 \\ 39 & -41 \end{array}$	$\begin{array}{c} 36\frac{1}{2} \\ 36\frac{1}{2} \\ 36\frac{1}{2} \\ 36\frac{1}{2} \\ 36\frac{1}{2} \\ 36\frac{1}{2} \\ \end{array}$	23, 15 21, 60 21, 80 21, 80 20, 70 19, 75
Nov. 2 . Nov. 7 . Nov. 10 . Nov. 14 . Nov. 28 .	:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28 -29 ¹ 28 -29	$\begin{array}{r} 30\frac{1}{2} - 32 \\ 32 - 34 \\ 31\frac{1}{2} - 34 \\ 32 - 34\frac{1}{2} \\ 33\frac{1}{2} - 35\frac{1}{2} \end{array}$	$\begin{array}{c} 36\frac{1}{2} \\ 38\frac{1}{2} \\ 37 \\ 36\frac{1}{2} \\ 37 \end{array}$	$ \begin{vmatrix} 31 & -32 \\ 32 & -33\frac{1}{2} \\ 29\frac{1}{2} - 30\frac{1}{2} \\ 30\frac{1}{2} - 31\frac{1}{2} \\ 29\frac{1}{2} - 31 \end{vmatrix} $		44 45 43 43 41	51 53 53 49 48	$ \begin{vmatrix} 38\frac{1}{2} - 40 \\ 39 - 41\frac{1}{2} \\ 38 - 40 \\ 37 - 39 \\ 36\frac{1}{2} - 39 \end{vmatrix} $	35 35 35 35 35 35 35 ¹ / ₂	19 90 19.95 20.50 21.00 21.00
Dec. 1 . Dec. 7 . Dec. 11 . Dec. 22 . Dec. 28 .		29 -30 29 -29 28 -28 28 -28 28 -29 28 -29	$29\frac{1}{2} - 31$	$\begin{array}{r} 34 & -35\frac{1}{2} \\ 35 & -36 \\ 34 & -35\frac{1}{2} \\ 33\frac{1}{2} - 36 \\ 34 & -36 \end{array}$	$ \begin{array}{c} 37\frac{1}{2} \\ 38 \\ 37 \\ 36\frac{1}{2} \\ 37 \end{array} $	$\begin{array}{c} 30\frac{1}{2} - 31\frac{1}{2} \\ 30 - 31 \\ 29\frac{1}{2} - 30\frac{1}{2} \\ 26\frac{1}{2} - 27\frac{1}{2} \\ 26\frac{1}{2} - 27\frac{1}{2} \end{array}$	38 -39 37 -40	$\begin{array}{c c} 41 \\ 40 \\ 41 \\ 37\frac{1}{2} \\ 36\frac{1}{2} \end{array}$	48 44 43 38 39 -40	37 -39 37 -39 36 -37 35 -37 35 -37	$35\frac{1}{2}$ $35\frac{1}{2}$ $35\frac{1}{2}$ $35\frac{1}{2}$ $35\frac{1}{2}$	20.75 20.55 19.70 19.15 20.65

New Bedford basis.

² New England basis.

³ New York basis.

⁴ New crop.

Relative Wholesale Prices of Cotton Yarn and Cotton Fabrics in Comparison with Other Groups of Commodities, from 1916 to 1926

[Prices of 1913, represented by 100, taken as basis]

	Cotton Yarn 10-1 Carded	Pepperell Brown Sheeting 4-4	Lonsdale Bleached Muslin 4-4		Foods	Fuel and Light- ing	Metals and Metal Prod- ucts	Build- ing Ma- terials	Chemicals and Drugs	House Fur- nish- ing Goods	All Com- modi- ties
Average of 1913	100	100	100	100	100	100	100	100	100	100	100
January, 1916 .	94.9	95.5	97.0	110	109	113	133	110	184	103	113
April, 1916 .	101.7	102.3	103.1	113	114	120	164	120	200	104	121
July, 1916.	114.1	105.7	106.2	117	117	121	158	120	175	107	123
October, 1916 .	135.6	133.0	121.3	136	134	128	164	124	164	109	136
January, 1917 .	153.6	150.1	133.4	152	140	171	198	138	173	118	153
April, 1917.	162.7	163.7	136.5	184	164	164	230	155	186	121	173
July, 1917 .	203.3	191.0	194.1	196	169	176	292	168	205	129	188
October, 1917 .	189.8	197.8	206.2	207	180	153	207	156	231	130	183
January, 1918 .	242.3	232.6	218.3	211	182	164	183	161	223	137	184
April, 1918.	278.4 289.7	327.4	279.0	213	181	166	184	169	228	144	190
July, 1918 . October, 1918 .	275.6	274.6	303.2 303.2	$\frac{217}{225}$	185 198	$175 \\ 176$	$\frac{189}{192}$	$ \begin{array}{c} 177 \\ 177 \end{array} $	$\frac{209}{211}$	$159 \\ 164$	$\frac{196}{202}$
,	201.3	260.6	258.5		$\frac{133}{203}$			1			
January, 1919 . April, 1919 .	188.5	204.6	258.5	$\frac{224}{230}$	$\frac{203}{205}$	178 177	175 153	176 169	181 160	$\frac{167}{167}$	199 199
July, 1919 .	267.1	299.0	338.5	$\frac{230}{241}$	210	181	$\frac{155}{160}$	$\frac{105}{209}$	167	183	$\frac{199}{212}$
October, 1919 .	276.1	313.0	363.9	227	205	189	162	229	173	194	211
January, 1920 .	328.6	389.1	399.9	247	231	194	175	274	189	239	233
April, 1920 .	351.7	_ 1	412.4	$\frac{517}{243}$	238	231	203	300	210	$\frac{242}{242}$	245
July, 1920 .	316.7	_ 1	412.4	233	238	259	202	269	212	275	241
October, 1920 .	196.3	274.2	296.2	187	201	280	191	240	198	271	211
January, 1921 .	130.1	165.6	190.8	143	162	247	153	192	153	217	170
April, 1921 .	107.9	136.4	188.0	117	144	205	138	167	135	216	148
July, 1921.	108.9	136.4	169.8	119	141	186	124	160	129	180	141
October, 1921 .	173.2	184.2	200.1	124	140	189	116	159	131	180	142
January, 1922 .	147.3	160.3	181.9	122	131	195	112	157	124	178	138
April, 1922 . July, 1922 .	141.7 170.7	153.5 174.8	169.8 182.3	$129 \\ 135$	137 142	$\begin{vmatrix} 194 \\ 254 \end{vmatrix}$	113 121	$\begin{vmatrix} 156 \\ 170 \end{vmatrix}$	124 121	$\frac{175}{173}$	$\begin{array}{ c c c c }\hline 143 \\ 155 \end{array}$
October, 1922	176.5	183.9	194.1	138	140	$\frac{234}{226}$	135	183	124	176 - 176	154
January, 1923 .	196.7	199.3	202.7	143	141	218	133	188	131	184	156
April, 1923 .	202.4	211.5	212.2	141	144	$\frac{210}{200}$	154	$\frac{100}{204}$	136	187	159
July, 1923 .	182.5	197.8	194.1	135	141	183	145	190	128	187	151
October, 1923 .	208.1	204.6	200.1	144	148	172	142	182	129	183	153
January, 1924 .	233.4	225.1	218.3	144	143	169	142	181	132	176	151
April, 1924 .	202.3	211.5	206.2	139	137	179	139	182	128	175	148
July, 1924.	197.8	211.5	201.7	134	136	175	132	173	127	172	147
October, 1924 .	187.7	204.6	206.2	143	148	168	128	171	131	171	152
January, 1925 .	183.6	201.2	206.2	163	160	168	136	179	135	173	160
April, 1925 .	173.3	201.2	209.3	153	154	169	129	174	134	171	156
July, 1925 .	174.3	177.4	180.3	162	157	172	126	$\frac{170}{174}$	133 135	169 168	$\frac{160}{158}$
October, 1925 .	179.4	180.8	200.1	155	158	172	128	174	199	105	198

¹ No quotation.

Actual Prices of Cotton in Comparison with Other Basic Raw Materials, from 1916 to 1926

	Cotton Middling Upland (per Pound)	Wood 14-8 Grades Scoured (per Pound)	Wheat No. 1 Northern (per Bushel)	Corn Contract Grade (per Bushel)	Cattle Good to Choice Steers (per 100 Pounds)	Copper Electro- lytic (per Pound)	Iron Bessemer, Pig (per 2,240 Pounds)	Coal, Bitu- minous (per 2,000 Pounds)
Average of 1913	\$0.128	\$0.471	\$0.874	\$0.625	\$8.507	\$0.157	\$17.133	\$2.200
January, 1916 .	.124	. 643	1.289	.761	8.666	. 229	21.580	2.200
April, 1916 .	.121	.686	1.217	.760	9.119	.269	21.950	$\frac{2.200}{2.200}$
July, 1916 . October, 1916 .	.130	$\frac{.686}{.682}$	$1.170 \\ 1.757$	$\frac{.808}{.955}$	$9.985 \\ 9.905$.265 $.285$	$21.950 \\ 24.080$	$\begin{bmatrix} 2.200 \\ 3.750 \end{bmatrix}$
	.176	.872	1.917	.982	10.531	.295	35.950	4.500
January, 1917 . April, 1917 .	.208	1.000	$\frac{1.917}{2.382}$	1.397	$10.551 \\ 12.310$	$\frac{.293}{.340}$	$\frac{35.950}{42.200}$	$\begin{bmatrix} 4.500 \\ 5.000 \end{bmatrix}$
April, 1917. July, 1917.	.261	1.200	$\frac{2.582}{2.582}$	2.044	12.360	.318	57.450	5.000
October, 1917.	.281	1.382	2.170	1.968	14.675	.235	37.250	3.300
January, 1918 .	.324	1.455	2.170	1.775	13.113	.235	37.250	3.600
April, 1918 .	.317	1.455	2.170	1.665	15.175	.235	36.150	3.600
July, 1918	.312	1.437	2.170	1.665	17.625	.255	36.600	$\frac{4.100}{4.100}$
October, 1918 .	.325	1.437	2.216	1.385	17.856	.260	36.600	4.100
January, 1919 .	.296	1.200	2,223	1.401	18.413	.204	33.600	4.100
April, 1919 . July. 1919 .	.290	$1.091 \\ 1.236$	2.589 2.680	$\begin{bmatrix} 1.609 \\ 1.920 \end{bmatrix}$	18.325 16.869	.153	29.350 29.350	$\frac{1.000}{4.000}$
July, 1919 . October, 1919 .	.355	1.236	$\frac{2.630}{2.625}$	1.400	17.594	.217	$\begin{vmatrix} 29.350 \\ 29.350 \end{vmatrix}$	4.500
January, 1920 .	.393	1.236	2.931	1.503	15.938	.193	40.400	4.100
April, 1920 .	.424	1.200	3.006	1.706	13.906	.192	43.650	5.500
July, 1920 .	.410	.909	2.831	1.549	15.381	. 190	47.150	6.000
October, 1920 .	.226	.727	2.106	.888	14.688	.168	49.210	7.100
January, 1921 .	.167	. 546	1.788	.682	9.840	.129	33.960	5.600
April, 1921 .	.121	. 527	1.406	.578	8.719	.125	26.960	4.850
July, 1921 .	.124	.491	1.438	.614	8.406	125	$\begin{vmatrix} 22.835 \\ 21.960 \end{vmatrix}$	$\frac{4.600}{4.100}$
October, 1921.	.197	.473	1.319	.470	8.875		1	
January, 1922 . April. 1922 .	.179	.582 .727	$1.300 \\ 1.563$.484	8.150	.136	$\begin{vmatrix} 21.560 \\ 22.585 \end{vmatrix}$	$\begin{vmatrix} 3.750 \\ 3.600 \end{vmatrix}$
April, 1922 . July, 1922 .	.223	.818	$\frac{1.303}{1.423}$.643	9.700	137	$\frac{22.335}{26.770}$	5.39
October, 1922 .	.228	.836	1.132	.691	10.245	.137	35.170	6.39
January, 1923 .	.275	.982	1.221	.711	9.780	.146	$\frac{1}{29.270}$	5.640
April, 1923 .	.290	1.018	1.279	.793	9.015	.169	32.770	4.89
July, 1923.	.259	1.000	1.084	.857	10.590	.144	28.464	3.89
October, 1923.	.301	.946	1.172	1.011	10.450	. 126	26.960	3.896
January, 1924 .	.347	.982	1.151	.759	9.469	.126	24.760	3.64
April, 1924 .	.299	.964	1.131	1.790	10.775	.133	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{3.39}{3.39}$
July, 1924 . October, 1924 .	.291	$\begin{bmatrix} .873 \\ 1.055 \end{bmatrix}$	1.296 1.434	$\begin{vmatrix} 1.055 \\ 1.105 \end{vmatrix}$	9.563 9.500	130	$\frac{21.960}{21.760}$	$\frac{3.39}{3.39}$
,	.240	.700	1.819	1.103	10.594	.148	$\frac{21.700}{24.635}$	3.39
January, 1925 . April, 1925 .	.240	.550	1.519 1.549	1.271 1.082	9.988	.133	$\frac{24.035}{22.885}$	$\frac{3.39}{3.39}$
July, 1925 .	.243	.520	1.591	1.065		.149		3.39
October, 1925 .	.211	.539	1.549	.828		.143		3.39
,								1

Relative Prices of Cotton in Comparison with Other Basic Raw Materials, from 1916 to 1926

[Prices of 1913, represented by 100, taken as basis]

	Cotton Middling (Upland)	$\begin{array}{c} \text{Wool} \\ \frac{1}{4} - \frac{3}{8} \\ \text{Grades} \\ \text{Scoured} \end{array}$	Wheat No. 1 Northern	Corn Contract Grade	Cattle Good to Choice Steers	Copper Electro- lytic		Coal, Bitu- minous
Average of 1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
January, 1916 .	97.0	136.5	147.6	121.8	101.9	145.5	126.0	100.
April, 1916 .	94.3	145.6	139.3	121.6	107.2	170.9	128.1	100.
July, 1916 .	101.6	145.6	133.9	129.3	117.4	168.8	128.1	100.
October, 1916 .	141.7	145.6	201.1	152.8	116.4	181.2	140.6	170.
January, 1917 .	137.8	182.3	219.4	157.1	123.8	187.5	209.8	204.
April, 1917 .	159.0	208.8	272.6	223.5	144.7	216.1	246.3	$\frac{227}{227}$.
July, 1917 .	203.9	254.8	295.4	327.0	147.6	202.5	335.3	227.
October, 1917 .	219.9	288.8	248.4	314.8	172.5	149.4	217.4	150.
January, 1918 .	253.1	308.9	248.3	284.0	154.1	149.7	217.4	162.
April, 1918 .	247.7	308.9	248.3	266.4	178.4	149.7	211.0	162.
July, 1918 . October, 1918 .	243.8 253.9	$\begin{vmatrix} 305.1 \\ 305.1 \end{vmatrix}$	$248.3 \\ 253.5$	$\begin{bmatrix} 266.4 \\ 221.6 \end{bmatrix}$	$\frac{207.2}{209.9}$	$\frac{162.4}{165.6}$	$213.6 \\ 213.6$	$\frac{186}{186}$.
		1						
January, 1919 .	231.3	254.8	254.3	224.2	216.4	129.9	196.1	186.
April, 1919 . July, 1919 .	226.6 274.2	$\begin{bmatrix} 231.6 \\ 262.4 \end{bmatrix}$	296.2	257.4	$\frac{215.4}{198.3}$	$97.5 \\ 136.9$	$171.3 \\ 171.3$	181.
July, 1919 . October, 1919 .	277.3	$262.4 \\ 262.4$	306.6 300.3	$\begin{vmatrix} 307.2 \\ 224.0 \end{vmatrix}$	$\frac{198.5}{206.8}$	138.2	171.3	$\frac{181}{204}$.
,	307.1	Ī		i i		122.8°		1
January, 1920 . April, 1920 .	331.4	$258.4 \\ 250.6$	$335.6 \\ 344.2$	$240.4 \\ 273.0$	$\frac{187.3}{163.5}$	$\frac{122.8}{122.0}$	$235.8 \\ 254.8$	$186. \\ 250.$
April, 1920 . July, 1920 .	320.6	189.9	324.1	$\frac{275.0}{247.8}$	180.8	$\frac{122.0}{120.8}$	$\frac{254.8}{275.2}$	$\frac{250}{272}$.
October, 1920 .	176.8	151.9	241.1	$\frac{142.0}{142.0}$	172.7	$120.5 \\ 106.5$	287.2	322.
Y	130.6	114.0	204.7	109.1	115.7	81.9	198.2	254.
January, 1921 . April, 1921 .	94.9	114.0 110.1	160.9	$\frac{109.1}{92.5}$	$\frac{113.7}{102.5}$	$\frac{51.9}{79.3}$	155.2 157.4	220.
July, 1921 .	96.6	102.6	164.7	98.2	98.8	79.7	133.3	$\frac{550}{209}$.
October, 1921 .	154.0	98.7	151.0	75.1	104.3	80.6	128.2	186.
January, 1922 .	140.0	121.6	148.8	77.4	95.8	86.1	125.8	170.
April. 1922 .	141.5	151.9	178.9	94.1	98.8	80.3	131.8	163.
July, 1922 .	174.6	170.9	162.8	102.8	114.0	87.2	156.3	245.
October, 1922 .	178.0	174.8	129.6	110.6	120.4	87.0	205.3	290.
January, 1923 .	214.7	205.2	139.8	113.7	115.0	92.5	170.8	256.
April, 1923 .	226.3	212.7	146.4	126.8	106.0	107.5	191.3	222.
July, 1923 .	202.3	208.8	124.1	137.1	124.5	91.7	166.1	176.
Detober, 1923 .	234.9	197.6	134.2	161.7	122.8	80.3	157.4	176.
January, 1924 .	271.4	205.2	131.7	121.3	111.3	80.1	144.5	165.
April, 1924 .	233.6	201.3	129.5	126.4	126.7	84.2	143.4	154.
July, 1924 .	229.1	182.3	148.4	168.7	112.4	$\frac{78.5}{1000}$	128.2	154.
October, 1924 .	191.6	220.2	164.2	176.8	111.7	82.6	127.0	154.
January, 1925 .	188.0	266.0	208.2	203.3	118.7	94.0	143.8	154.
April, 1925 .	191.6	208.9	109.6	173.1	117.4	84.8	133.6	154.
July, 1925 .	190.9	197.7	174.3	$\frac{170.3}{100.4}$	135.9	88.8	121.2	154.
October, 1925 .	165.8	201.4	169.7	132.4	140.0	91.2	114.2	154.

Prices of Staple Cotton Yarns in the United States on First of Each Quarter during Years 1914 to 1925, inclusive

[Prices are per pound]

Source: Daily News Record and Textile World

DATE	10s Single Southern Carded Frame Cones	20/2 Southern Carded Skeins	60/2 Eastern Combed Peeler Warps
January 1, 1914	. \$0 21½ to \$0 21½	\$0 23 to \$0 23\frac{1}{2}	\$0 53 to \$0 59
April 1, 1914	. 21 to 21	$23 ext{ to } 23\frac{1}{2}$	53 to 59
July 1, 1914	. 21 to 21		51 to 57
October 1, 1914	$15\frac{3}{4}$ to $17\frac{3}{4}$	17 to 18	50 to 56
January 1, 1915	. 14 to 15	$16\frac{1}{2}$ to $17\frac{1}{2}$	44 to 49
April 1, 1915	. 15 to 16		48 to 53
July 1, 1915	$15\frac{1}{2}$ to $17\frac{1}{2}$		51 to 56
October 1, 1915	. 18 to 19	21 to 22	56 to 59
January 1, 1916	. 20 to 22	25 to 27	61 to 66
April 1, 1916	$20\frac{1}{2}$ to 22	26 to 27	66 to 71
July 1, 1916	$23\frac{1}{4}$ to 24	28 to 31	76 to 81
October 1, 1916	. 29 to 31	$33\frac{1}{2}$ to 35	97 to 1 02
January 1, 1917	. 35 to 37	39 to 41	1 10 to 1 15
April 1, 1917	. 34 to 36	$36\frac{1}{2}$ to 38	93 to 95
July 1, 1917	. 44 to 46	43 to 46	1 10 to 1 15
October 1, 1917	. 41 to 42	42 to 45	1 10 to 1 15 1 20 to 1 25
January 1, 1918	. 50 to 52	55 to 58	
April 1, 1918	. 60 to 61	67 to 68	1 20 to 1 25
July 1, 1918	. 61 to 63	71 to 73	1 20 to 1 25 1 20 to 1 25
October 1, 1918	. 61 to 63	73 to 75	
January 1, 1919	. 50 to 53	62 to 65	1 20 to 1 30 1 05 to 1 10
April 1, 1919	. 41 to 43 55 to 57	46 to 50 67 to 69	1 55 to 1 60
July 1, 1919	55 to 57 60 to 63	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 90 to 1 95
October 1, 1919	60 to 72	84 to 85	3 50
January 1, 1920	74 40 77	90 to 92	3 75
1.1 1.1000	70 to 75	80 to 85	2 50
October 1, 1920	49 to 45	50 to 55	1 50
January 1, 1921	28 to 20	31 to 32	85
A	91 45 99	23 to 24	80
July 1, 1921	21 to 22	$22\frac{1}{2}$ to 23	85 to 95
October 1, 1921	. 35 to 37	$36\frac{1}{2}$ to 38	1 10
January 1, 1922	$30\frac{1}{2}$ to 31	$33\frac{1}{2}$ to 34	1 10
April 1, 1922	$28\frac{1}{2}$	$31\frac{1}{2}$	1 05
July 1, 1922	35	39	1 05
October 1, 1922	. 34 to 34	38 to 38½	1 00
January 1, 1923	$41\frac{1}{2}$ to 42	$49 \text{ to } 49\frac{1}{2}$	1 10 to 1 18
April 1, 1923	$45\frac{1}{2}$	54	1 05 to 1 15
July 1, 1923	. 39 to 39	$44\frac{1}{2}$ to 45	95 to 1 05
October 1, 1923	. 44	$49\frac{1}{2}$ to 50	95 to 1 00
January 1, 1924	. 50	55	1 05 to 1 15
April 1, 1924	$40\frac{1}{2}$	44 to $44\frac{1}{2}$	
July 1, 1924	. 40	$43\frac{1}{2}$	74 to 78
October 1, 1924	. 40	44 to $44\frac{1}{2}$	74 to 77
January 1, 1925	. 39	$44\frac{1}{2}$	77 to 80
April 1, 1925	. 39	43	76 to 79
July 1, 1925	. 36	$38 \text{ to } 38\frac{1}{2}$	70 to 74
January 1, 1926	. $33\frac{1}{2}$ to 34	36	6S to 72
	1	I .	the state of the s

Prices of Carded Warp Yarns and Spot Cotton in the United States, Week by Week, during the Year 1924

[Prices are per pound]
Compiled by Frederick B. Macy & Co., New Bedford

ъ		Ca	RDED SI	NGLE W	ARPS	CAI	RDED TW	O-PLY W	ARPS	Mid-up Spot	Staple Cotton
DAT	Е	88	20s	30s	40s	Ss	20s	30s	40s	Cotton, New York (in Cents)	13 Inches (in Cents)
January	2	. 80-41	80 45	\$0.50	80 55	\$0.41	\$0.47	\$0.52	\$0.57	24.20	$32\frac{3}{4}$
	9	. 41	45	51	55	41	47	52	57	24.15	$32\frac{1}{2}$
	16	. 40	45	51	55	41	47	52	57	24.00	$32\frac{1}{2}$
	23	. 40	44	50	55	41	46	52	56	23.45	$33\frac{1}{2}$
13.1	30	. 40	44	50	54	41	46	52	56	23.90	$33\frac{1}{2}$
February	- 6	. 40	44	50	56	41	45	52	58	24.25	34
	$\frac{13}{20}$. 39	43	49	58	39	14	50	60	24.75	341
	$\frac{20}{27}$	$\frac{38}{37}$	43 43	49 49	58 58	$\frac{39}{39}$	44 44	$\frac{50}{50}$	60	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{34\frac{1}{2}}{34\frac{1}{2}}$
March	6	37	43	49	58	40	45	51	60	$\frac{26.05}{25.95}$	$\frac{342}{36}$
Watten	13	9.0	44	50	59	40	45	$\frac{51}{52}$	60	$\frac{25.50}{25.50}$	36
	20	38	44	50	59	40	46	52	60	$\frac{25.90}{25.95}$	361
	$\frac{50}{27}$	38	44	50	59	40	46	51	60	$\frac{25}{25}$ $\frac{30}{20}$	$36\frac{1}{2}$
April	3	38	44	50	59	40	46	51	60	24.55	36
-1,	10	. 38	44	50	58	. 39	46	50	59	$\frac{24.35}{24.35}$	$35\frac{1}{2}$
	17	38	41	49	57	39	45	50	58	24.45	36
	24	. 38	41	48	57	39	44	48	58	± 24.50	37
May	1	. 38	41	48	57	39	44	48	58	± 24.40	36
v	8	. 38	41	47	57	39	42	47	58	23.35	$35\frac{1}{2}$
	15	. 37	40	45	56	37	41	46	57	22.65	$33\frac{3}{4}$
	22	. 38	40	45	55	37	41	46	56	23.50	34
	29	. 38	41	45	55	38	42	46	56	23.75	$34\frac{1}{2}$
June	5	. 38	40	45	55	38	41	46	56	24.70	$34\frac{1}{4}$
	12	. 36	39	44	54	37	40	45	55	-23.65	$33\frac{1}{2}$
	19	. 36	39	14	54	37	40	45	55	24.15	34
x 1	$\frac{26}{9}$. 36	39	44	54	37	40	45	54	24.45	$\frac{34\frac{1}{2}}{34\frac{1}{2}}$
July	3	. 36	39	44	54	37	40	45	54	23.80	$34\frac{1}{4}$
	10	. 36	39	44	54	37	40	45	54	24.24	34
	17	. 36	39	43	54	37	40	44	54	24.40	331
	$\frac{24}{31}$. 36	39	45	54	37	41	44	54	25.30	33½ 33½
August	7	38	42 42	45 45	55 55	$\frac{39}{39}$	43	46	56 56	24.85	$\frac{33\frac{1}{2}}{33\frac{1}{2}}$
August	14	37	42	45	55	39	43	46	56	$\begin{array}{c} 24.55 \\ 23.50 \end{array}$	$31\frac{1}{2}$
	21	37	42	45	54	38	42	45	55	$\frac{23.50}{23.55}$	$30\frac{1}{3}$
	$\frac{28}{28}$	37	42	14	54	37	42	45	55	$\frac{23.35}{22.85}$	$\frac{30^{2}}{30^{2}}$
September		37	42	44	54	37	42	45	55	$\frac{22.65}{22.65}$	30
opromoc.	11	37	42	45	56	38	43	46	56	23.95	29
	18	. 38	42	46	57	39	43	48	58	24.45	32
	25	. 39	43	48	58	40	44	51	60	23.90	31
October	2	. 39	43	48	58	40	44	51	60	23.15	301
	9	. 39	43	48	58	40	44	51	60	22.10	29
	16	. 39	42	47	56	40	43	50	59	21.60	29
	23	. 39	42	46	55	40	43	50	58	21.80	$28\frac{1}{2}$
	30	. 38	42	46	54	39	43	49	57	19.75	$27\frac{1}{2}$
${ m November}$. 37	42	46	54	38	42	49	57	20.80	29
	13	. 36	42	46	55	37	42	49	57	20.90	$\frac{30\frac{1}{2}}{2001}$
	$\frac{20}{20}$. 36	42	46	55	37	41	48	57	20.80	$\frac{30\frac{1}{2}}{211}$
D1	29	. 36	42	46	55	37	42	48	57	21.00	$\frac{31\frac{1}{2}}{20}$
December		. 36	42	46	55	37	42	48	57	$\frac{20.75}{10.70}$	30
	11	. 36	42	46	55	37	42	48	57	19.70	30
	$\frac{18}{26}$	36 35	$\frac{41}{40}$	$\frac{1}{45}$	55 55	37 36	$\frac{42}{42}$	48 47	57 57	19.35	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	20	$ \cdot $ 99	40	4.0	1 99	1 90	42	41	97	20.65	ال شا

¹ New Bedford basis.

Prices of Combed Warp Yarns and Spot Cotton in the United States, Week by Week, during the Year 1924

[Prices are per pound]
Source: Frederick B. Maey & Co., New Bedford

		Со	MBED SI	NGLE W.	ARPS		Сом	BED TW	O-PLY W	ARPS	Mid-up Spot	Staple Cotton
DAT	Έ	30s	40s	50s	6	0s	30s	40s	50s	60s	Cotton, New York (in Cents)	
 January	2	. 80-70	\$0.80	\$0_95		00	\$0.75	\$0_90	\$1 10	\$1 15	24.20	$32\frac{3}{4}$
	9	. 70	80	95	1	10	75	90	1 10	1 25	24.15	$32\frac{i}{2}$
	16	. 70	80	95	1	10	75	90	1 10	1 25	24.00	$\frac{32\frac{1}{2}}{22}$
	23	. 70	80	95	1	10	75	90	1 10	1 25	23.45	33 1
r. 1	30	. 70	80	95	1	10	75	90	1 10	1 25 1 25	$23.90 \\ 24.25$	$\frac{33\frac{1}{2}}{33}$
February	6	. 70	80	95	1	10 10	75	90	1 10	$\begin{array}{ c c c c } & 1 & 25 \\ \hline & 1 & 25 \end{array}$	$\begin{bmatrix} 24.25 \\ 24.75 \end{bmatrix}$	34
	$\frac{13}{20}$	$\frac{1}{70}$	80 80	95 95	1	10	75 75	90	1 10	1 25	24.50	$\frac{34}{34\frac{1}{2}}$
	$\frac{20}{27}$		$\frac{80}{80}$	95	l î	10	$\frac{10}{75}$	90	1 10	1 25	25.35	351
March	6	70	80	95	i	10	75	90	1 10	1 25	25.95	36
March	13	$\frac{70}{70}$	80	95	i	10	75	90	1 10	$\frac{1}{1} \frac{50}{20}$	25.50	36
	$\frac{10}{20}$	70	80	95	l î	10	75	90	1 05	1 20	25.95	361
	$\frac{50}{27}$	70	78	90		05	75	88	1 05	$\frac{1}{1} = \frac{50}{20}$	25.20	361
April	3	70	78	90		05	75	88	1 05	1 20	24.65	36
	10	70	78	90	_	05	75	88	1 05	1 20	24.40	$35\frac{1}{2}$
	17	. 70	78	90	_	05	75	88	1 05	1 20	24.95	36
	24	. 70	76	90	1	00	7.5	85	1 05	1 18	24.50	37
May	1	. 70	76	90	1	00	75	85	1 05	1 18	24.40	36
	8	.] 70	76	90	1	00	75	85	1 05	1 18	23.35	$35\frac{1}{2}$
	15	. 70	76	90	1	00	75	85	1 05	1 18	= 22.30	$-33\frac{3}{4}$
	22	. 70	76	90		95	75	85	1 05	1 18	23.50	34
	-29	. 70	75	90		95	75	85	1 05	1 18	23.75	$34\frac{1}{2}$
June	5	. 70	76	90		00	75	85	1 05	1 18	23.85	36
	12	. 70	76	90		00	75	85	1 05	1 18	22.55	$35\frac{1}{2}$
	19	. 70	76	90		00	75	85	1 05	1 18	23.40	$33\frac{3}{4}$
	26	. 70	75	90		95	75	85	1 05	1 18	23.95	34
July	3	. 70	75	90		95	75	80	1 00	1 15	23.80	$\frac{34\frac{1}{1}}{24}$
	10	. 70	75	90		95	75	80	1 00	1 15	24.20	34 33‡
	17	. 70	75	90		95	75	80	1 00	1 15	24.40	
	24	. 70	75	90		95	75	80	$\begin{bmatrix} 1 & 00 \\ 1 & 00 \end{bmatrix}$	1 15	25.30 24.85	$33\frac{1}{2}$ $33\frac{1}{2}$
	3 <u>1</u>	. 70	75	90		95	75	80 80	1 00	1 15	24.50	33
August	$\frac{7}{14}$	$\cdot \mid \frac{70}{20}$	75	90		95 - 95 -	$\frac{75}{75}$	80	1 00	1 15	$\frac{24.50}{23.50}$	33½
	21	$\frac{70}{68}$	$\begin{vmatrix} 75\\75 \end{vmatrix}$	S8		95	73	80	1 00	1 15	23.65	$30\frac{1}{3}$
	$\frac{21}{28}$	0-	$\frac{75}{75}$	87		95	73	80	1 00	1 15	$\frac{29.85}{22.85}$	30
September		$\begin{bmatrix} 67 \\ 67 \end{bmatrix}$	75	87		95	73	80	1 00	1 15	22.65	30
срестве	11	. 67	75	87		95	73	80	1 00	1 15	23.80	$30\frac{1}{2}$
	18	$\ddot{67}$	75	87		95	75	80	1 00	1 15	24.65	32
	25	. 70	76	87		95	75	80	1 00	1 15	23.90	31
October	$\tilde{2}$. 70	76	87		95	75	80	1 00	1 15	23.15	$30\frac{1}{4}$
	$\bar{9}$. 70	76	87		95	75	80	1 00	1 15	22.10	29
	16	. 70	75	87		95	75	80	1 00	1 15	21.60	29
	23	. 70	75	87		95	75	80	1 00	1 15	21.75	$28\frac{1}{2}$
	30	. 68	73	86		95	73	78	97	1 15	19.75	$27\frac{1}{2}$
November		. 68	73	86		95	73	78	97	1 15	20.80	29
	13	. 68	73	86		95	73	78	97	1 15	20.90	$30\frac{1}{2}$
		. 68	73	86		95	73	78	97	1 10	21.00	$\frac{30\frac{1}{2}}{211}$
· ·	29	. 68	73	86		95	73	78	97	1 05	$\frac{20.65}{20.65}$	$31\frac{1}{2}$
$\operatorname{December}$. 68	73	86		95	73	78	97	1 05	$\frac{20.75}{10.70}$	$\frac{31\frac{1}{2}}{20}$
	11	. 68	73	86		95	73	78	$\frac{97}{2}$	1 05	$\frac{19.70}{10.25}$	30
	18	. 68	72	85		94	73	77	95	1 05	19.35	$\frac{29\frac{1}{2}}{28\frac{1}{2}}$
	26	. 65	70	83		92	72	75	95	1 05	20.65	203

New Bedford basis.

Prices of Gray Cloths and Spot Cotton, Week by Week, during 1925

[Prices are cents per yard]
Source: Daily News Record

		Source	Daily Nev	rs Record			
D	ATE	64 x 60 27-Inch 7.60 Yards.	68 x 72 39-Inch 4.75 Yards.	48 x 48 37-Inch 4.00 Yards.	48 x 40 36-Inch 5,50 Yards	64 x 104 39-Inch 4.20 Sateen.	Cotton Mid-up Spot, N. Y.
January 3 10 17 24	7	6.85 6.75 6.86 6.88	$\begin{array}{r} 10.62 \\ 10.50 \\ 10.71 \\ 10.88 \end{array}$	10.47 10.39 10.43 10.37	8.00 8.00 8.00 8.00	$ \begin{array}{r} 13.87 \\ 13.75 \\ 13.75 \\ 13.75 \end{array} $	$\begin{array}{r} 24.58 \\ 24.05 \\ 24.15 \\ 23.81 \end{array}$
February 7 14 21	1	6.79 6.75 6.77 6.88	10.77 11.00 11.12 11.17	10.37 10.37 10.37 10.37	7.87 7.95 8.00 8.00	13.75 13.75 13.75 13.75	23.83 24.45 24.58 24.58
28 March 7 14 21	§	6.88 6.96 6.94 6.90	11.25 11.29 11.35 11.30	$\begin{array}{c} 10.37 \\ 10.41 \\ 10.50 \\ 10.50 \end{array}$	8.00 8.04 8.12 8.03	13.75 13.75 13.75 13.75	$\begin{array}{r} 25.24 \\ 26.03 \\ 25.81 \\ 25.67 \end{array}$
April 28 11 18		$\begin{array}{c} 6.75 \\ 6.75 \\ 6.71 \\ 6.62 \end{array}$	11.16 11.00 11.02 11.08	10.31 10.12 10.04 10.00	7.85 7.75 7.66 7.56	13.62 13.62 13.54 13.54	$ \begin{array}{r} 25.34 \\ 24.69 \\ 24.50 \\ 24.60 \end{array} $
May 25 116	2 9 5	6.62 6.58 6.46 6.27	$ \begin{array}{c cccc} 11.12 \\ 11.10 \\ 10.65 \\ 10.31 \\ 10.03 \end{array} $	9.89 9.77 9.52 9.31	7.56 7.42 7.27 7.16	13.33 13.32 13.25 12.87	$ \begin{array}{r} 24.64 \\ 24.20 \\ 23.56 \\ 22.49 \\ 23.50 \end{array} $
30 June 6 13 20) 3 3	$ \begin{array}{c c} 6.25 \\ 6.25 \\ 6.19 \\ 6.23 \\ 6.25 \end{array} $	$ \begin{array}{c c} 10.08 \\ 10.05 \\ 10.00 \\ 10.00 \\ 10.00 \end{array} $	9.10 9.12 9.06 9.08 9.12	7.10 7.05 7.00 7.00 7.04	$ \begin{array}{c c} 12.75 \\ 12.50 \\ 12.37 \\ 12.25 \\ 12.25 \end{array} $	23.52 23.84 24.05 23.79 24.28
July 4 11 18		6.33 6.38 6.41 6.48	9.06 9.27 9.31 9.37	9.12 9.25 9.25 9.33	7.12 7.25 7.19 7.25	$ \begin{array}{c cccc} 12.25 \\ 12.00 \\ 12.25 \\ 12.25 \end{array} $	24.25 24.38 24.25 24.67
August 25 8 15		6.54 6.62 6.60 6.58	9.43 9.52 9.37 9.37	9.43 9.72 9.75 9.68	$ \begin{array}{r} 7.31 \\ 7.50 \\ 7.50 \\ 7.37 \end{array} $	12.25 12.33 12.33 12.33	24.86 25.22 24.49 23.83
22 29 September 5 12 19		6.53 6.50 6.50 6.58 6.75	9.35 9.37 9.31 9.47 9.75	9.62 9.58 9.50 9.77 10.14	7.39 7.37 7.37 7.25 7.50	12.33 12.25 12.25 12.30 12.50	23.61 23.05 22.52 23.77 24.55
October 26 10 17)]	6.79 6.75 6.75 6.69	9.76 9.87 9.68 9.62	$ \begin{array}{r} 10.14 \\ 10.25 \\ 10.25 \\ 10.13 \\ 10.00 \end{array} $	7.91 8.00 8.00 7.93	12.75 12.75 12.75 12.75 12.75	$\begin{bmatrix} 23.96 \\ 23.35 \\ 22.47 \\ 21.70 \end{bmatrix}$
24 31 November 7 14		$\begin{array}{r} 6.51 \\ 6.40 \\ 6.32 \\ 6.25 \end{array}$	9.33 9.00 8.87 8.80	$\begin{array}{c} 10.00 \\ 9.87 \\ 9.75 \\ 9.75 \end{array}$	7.75 7.62 7.37 7.30	12.62 12.37 12.25 12.25	$ \begin{array}{c cccc} 21.90 \\ 20.24 \\ 20.63 \\ 20.73 \\ 21.00 \end{array} $
21 28 December 4 11 18		$\begin{bmatrix} 6.25 \\ 6.25 \\ 6.25 \\ 6.17 \\ 6.06 \end{bmatrix}$	8.97 9.00 9.00 8.69 8.50	$egin{array}{c} 9.75 \ 9.75 \ 9.75 \ 9.75 \ 9.56 \ \end{array}$	7.31 7.37 7.37 7.35 7.25	$\begin{array}{c c} 12.25 \\ 12.25 \\ 12.25 \\ 12.20 \\ 12.20 \end{array}$	$\begin{bmatrix} 21.00 \\ 21.47 \\ 20.85 \\ 20.24 \\ 19.48 \end{bmatrix}$
24 31	ł	6.00	8.50 8.55	$9.50 \\ 9.50$	$7.20 \\ 7.12$	$12.00 \\ 12.00$	$\begin{array}{c} 19.41 \\ 20.68 \end{array}$

Prices of Staple Cotton Yarns in the United States during the Year 1925

[Prices are cents per pound]
Source: Daily News Record

I	OATE		16s Single Southern Carded Frame Warps	16/2 Southern Carded Skeins	40/2 Southern Carded Warps	36s Northern Mule Spun Combed Peele Cones
January	3		43	43	56	67
	13		42	$42\frac{1}{2}$	$55\frac{1}{2}$	67
73.1	31		$\frac{41\frac{1}{2}}{40\frac{1}{2}}$	$\frac{41}{401}$ $-41\frac{1}{2}$	56	67
February	6		405	$\frac{40\frac{1}{2}}{100}$	56	67
	18		$40\frac{1}{2}$	$40\frac{1}{2}$	56	67
	27	٠,	$41\frac{1}{2}$	$41\frac{1}{2}$	57	67
March	- 6		$\begin{array}{c} 42\frac{1}{2} \\ 43\frac{1}{2} \\ 42\frac{1}{2} \end{array}$	$42 - 42\frac{1}{2}$	57 - 58	67
	18		43 ½	43	59	67
	25		$\frac{42\frac{1}{2}}{2}$	42	58	67
April	1		42	$41\frac{1}{2}$	57 -58	67
	9		41	41	56 - 57	67
	25		$40\frac{1}{2}$	$40\frac{1}{2}$	$\overline{5}6$	67
_	29		$40\frac{1}{2}$	40	56	67
May	$\frac{19}{2}$		$39\frac{1}{2}$	39	54	67
	19		38	38	55	64
	28 27 2 2 8 27 8		$38\frac{1}{2}$	39	55	64
June	5		38	$38\frac{1}{2}$	$54\frac{1}{2}$ $54\frac{1}{2}$ $53\frac{1}{2}$	64
	27		$\frac{37\frac{1}{2}}{36\frac{1}{2}}$	$3\bar{S} - 3S\frac{1}{2}$	$54\frac{1}{2}$	64
July	2		$36\frac{1}{2}$	$37 - 37\frac{1}{2}$	$53\frac{1}{2}$	63
	8	. 1	37	$37\frac{1}{2}$.54	63
	27		$39\frac{1}{2}$ -40	39 -40	55 -57	64
August	-8		$39\frac{1}{2}$	39	55	64
	28		39	$3S_{\frac{1}{2}}^{1}$	54	64
	31		$38\frac{1}{2}$	38	54	64
September	-3		39	$38\frac{1}{2}$	54	64
	17		$\frac{40\frac{1}{2}}{41\frac{1}{2}}$	40	57	64
	29		$41\frac{1}{2}$	41	58	64
October	-8	.	41	401	58	64
	31	.	39	381	56	64
November	5		38	$\frac{38\frac{1}{2}}{37\frac{1}{2}}$	55	64
	27		38	38	56	64
December	1		$37\frac{1}{2}$	$37\frac{1}{2}$	54	64
	18		36	$37\frac{1}{2}$ $35\frac{1}{2}$	53	64
	31		$35\frac{1}{2}$	35	$52\frac{1}{5}-53$	64

Cord tire fabrics:

Carded Egyptian (uppers)

Print cloth yarn dobby fancies

57

46

52

Cotton Gray Goods Prices, December 31, 1925

[Inventory Basis]

Source: Daily News Record

					Construction	Width	Yards per Pound	Cents pe Yard
Print cloth					64 x 60	27-inch	7.60	6
Print cloth					56×44	25-inch	10.55	$4\frac{1}{4}$
Print cloth					64×60	$38\frac{1}{2}$ -inch	5.35	85
Print cloth					80×80	39-inch	4.00	12
Tobacco cloth					20×12	36-inch	_	$2\frac{1}{16}$
Tobacco cloth .					44 x 44	36-inch	8.10	$6\frac{1}{8}$
Sheeting					56×60	36-inch	4.00	$9\frac{3}{4}$
Sheeting					48 x 40	36-inch	5.50	$7\frac{1}{8}$
Sheeting					48 x 48	37-inch	4.00	$9\frac{1}{2}$
Sheeting					48 x 48	40-inch	2.85	12
Sheeting					48 x 48	60-inch	3.30	15
Drill					_	30-inch	2.85	$12\frac{3}{4}$
Drill					_	37-inch	3.95	$9\frac{1}{2}$
Jean					84 x 56	30-inch	4.00	$11\frac{1}{2}$
Three-leaf twill .					64 x 48	39-inch	6.00	83
Three-leaf twill .					68×76	39-inch	4.00	$11\frac{3}{4}$
Albert (carded) .					64 x 80	35-inch	5.10	$10\frac{1}{4}$
Filling sateen .					64 x 112	39-inch	4.00	13
Domestic broadcloth	(care	led)			100 x 64	$37\frac{1}{2}$ -inch	4.00	$13\frac{1}{4}$
Domestic broadcloth					112×60	37-inch	4.40	17
Lawn (carded) .					72×60	30-inch	12.00	7
Lawn (carded) .					88 x 80	40-inch	6.00	14
Lawn (combed) .					80 x 80	40-inch	9.00	13
Lawn (combed) .					84 x 80	40-inch	10.50	$14\frac{1}{4}$
Voile słack twist)					60×52	40-inch	_	10
Voile (super hard twis	t)				60 x 56	34-ineh	_	$13\frac{1}{2}$
Poplin (carded) .					100 x 44	$37\frac{1}{2}$ -inch	3.90	13
Organdy					72×64	40-inch	13.00	$11\frac{1}{2}$
Pongee					72×100	34-inch	7.00	$14\frac{1}{4}$
Osnaburg (p. w.) .					-	40-inch	7 oz.	$12\frac{3}{8}$
$17\frac{1}{4}$ -ounce square Carded Peele	wov	en ti	ire f	fabri	es:			Cents p

Prices of Staple Cotton Cloths in the United States 1914 to 1925, inclusive

[Prices are per linear yard]

Source: Daily News Record, and C. H. Pope & Co.

	DATE			Print Cloth 38½", 64 x 60 5,35 Yards per Pound	Brown She 36", 56 x 4 Yard per Pou	s 60	Fine Lawn 40", 88 x 80 8.50 Yards per Pound
January 1, 1914				\$0 05\frac{3}{16}	\$0.06½ to	$06\frac{3}{8}$	\$0.07
April 1, 1914				05_{16}^{10}	$06\frac{1}{8}$ to	$06\frac{1}{4}$	$06\frac{1}{4}$
July 1, 1914				$04\frac{7}{8}$	06		$07\frac{1}{8}$
October 1, 1914				04	$05\frac{1}{2}$.	$07\frac{1}{8}$
January 1, 1915				$03\frac{1}{1}\frac{1}{6}$	$04\frac{1}{4}$ to	$04\frac{1}{2}$	$06\frac{5}{8}$
$\begin{array}{ll} \text{April} & 1,1915 \end{array}$				04	$01\frac{3}{4}$ to	$04\frac{7}{8}$	$06\frac{3}{4}$
July 1, 1915				$03\frac{3}{4}$	$04\frac{7}{8}$		$06\frac{3}{4}$
October 1, 1915				$04\frac{1}{2}$	055 to	$05\frac{3}{4}$	07
January 1, 1916				$04\frac{3}{4}$	06		08
April 1, 1916				$05\frac{5}{16}$	$06\frac{1}{4}$ to	$06\frac{3}{8}$	$09\frac{1}{2}$
July 1, 1916				$05\frac{3}{4}$	$06\frac{5}{8}$ to	$06\frac{3}{4}$	$09\frac{3}{4}$
October 1, 1916				$06\frac{7}{8}$	08	}	11
January 1, 1917				$07\frac{5}{8}$	$09\frac{3}{4}$		12
April 1, 1917				$08\frac{1}{4}$	$09\frac{1}{2}$ to	$09\frac{3}{4}$	$11\frac{1}{2}$
July 1, 1917				$10\frac{3}{4}$	13		$12\frac{3}{4}$
October 1, 1917				$09\frac{3}{4}$	$12\frac{1}{2}$ to	$12\frac{3}{4}$	12
January 1, 1918				$\frac{12}{2}$	$15\frac{1}{4}$	1	13
April 1, 1918				$17\frac{1}{2}$	21	İ	$19\frac{1}{2}$
July 1, 1918				$18\frac{3}{4}$	23		$23\frac{1}{2}$
October 1, 1918				$09\frac{3}{4}$	$17\frac{1}{2}$	Į	25^{1}
January 1, 1919				$12\frac{1}{4}$	16		$19\frac{1}{2}$
April 1, 1919				$09\frac{3}{4}$	12	1	16
July 1, 1919				17	$18\frac{1}{2}$		$26\frac{1}{2}$
October 1, 1919				17	$19\frac{1}{2}$ to	20	29
January 1, 1920				$20\frac{1}{4}$	25		40
April 1, 1920				23	$26\frac{1}{2}$ to	27	40
July 1, 1920				20	$22\frac{1}{2}$		29
October 1, 1920				$12\frac{1}{2}$	$15\frac{1}{2}$		$24\frac{1}{2}$
January 1, 1921				08	$09\frac{3}{4}$		$15\frac{1}{2}$
April 1, 1921				$06\frac{5}{8}$	08		$14\frac{3}{4}$
July 1, 1921				$06\frac{3}{8}$	$07\frac{1}{4}$		$13\frac{1}{2}$
October 1, 1921				$09\frac{1}{2}$	$11\frac{1}{2}$		$16\frac{1}{2}$
January 1, 1922		٠.		09	$09\frac{3}{4}$		$15\frac{3}{4}$
April 1, 1922				$07\frac{3}{8}$	09	į	$14\frac{1}{2}$
July 1, 1922				$08\frac{1}{2}$	$10\frac{1}{4}$		$15\frac{1}{4}$
October 1, 1922				09	$10\frac{5}{8}$ to	$10\frac{3}{4}$	15
January 1, 1923				$10\frac{3}{8}$	12 to	$12\frac{1}{4}$	$15\frac{1}{2}$
April 1, 1923				$10\frac{7}{8}$	$12\frac{3}{4}$		16
July 1, 1923				$09\frac{1}{2}$	$11\frac{1}{4}$		$15\frac{1}{4}$
October 1, 1923				$09\frac{3}{4}$	$12\frac{1}{4}$		$15\frac{1}{2}$
January 1, 1924				11	$13\frac{1}{2}$		$15\frac{3}{4}$
April 1, 1924				$09\frac{1}{4}$	11		$14\frac{3}{4}$
July 1, 1924				CS_{4}^{3}	$10\frac{3}{4}$		$14rac{ ilde{1}}{2}$
October 1, 1924				69	11		$14\frac{\overline{1}}{2}$
January 1, 1925				$69\frac{1}{4}$	$10\frac{7}{8}$		$14\frac{1}{4}$
April 1, 1925				69	$10\frac{3}{4}$		$14\frac{1}{4}$
July 1, 1925				$09\frac{1}{4}$	$(.9\frac{3}{4})$		$13\frac{3}{4}$
October 1, 1925				$69\frac{i}{4}$	$11\frac{1}{8}$		14
January 1, 1926				$C8\frac{1}{2}$	$C9\frac{3}{4}$	- 1	14

¹ Government-fixed price.

Average Yearly Print Cloth Prices

Source: Daily News Record

YEAR		25-Inch 56 x 44 10.55 Yard	27-Inch 64 x 60 7.60 Yard	38½-Ineh 44 x 40 8.20 Yard	383-Inch 60 x 48 6.25 Yard	384-Inch 64 x 60 5.35 Yard	39-Inch 68 x 72 4.75 Yard	39-Ineh 72 x 76 1.25 Yard	39-ineh S9 x S0 4,00 Yard	Average Cotton Goods Prices 1	New York Middling Spot Cotton
Pre-war average (1911	11-12-13)	2.402	3.308	3.237	4.243	4.852	5.470	6.158	6.942	8.054	12.55
1914		2.299	3.071	3.146	3.774	4,465	5.111	5.769	6.403	7.851	11.81
1915		2.152	2.900	2.800	3.544	4.050	4.673	5.359	5.989	7.338	10.08
1916		3.059	4.118	4.178	5.200	6.031	6.781	7.370	8.011	9.860	14.45
1917		5.113	6.656	6.307	8.046	9.399	10.701	11.853	12.795	15.074	53.80 S. S.
1918 ²		8.232	11.513	10.300	14.029	15.152	18.338	20.332	20.930	23,533	31.59
1919		8.010	698.6	9.300	12.650	13.700	16.695	19.258	21.670	21.912	32.37
1920		8 + 8.6	12.336	12.100	15.848	17.280	18.788	21.649	23.915	26.000	33.79
		3.953	5.079	4.855	6.565	7.710	8.869	9.635	11.387	13.018	15.05
1922		5.076	6.823	6.276	7.962	8.943	10.008	11.622	12.605	15.090	22.44
1923		5.426	7.461	7.052	8.835	10.198	11.721	12.646	13.608	17.145	29.30
1924		4.887	6.780	6.227	7.875	9.063	10.382	11.837	13.279	16.084	28.75
1925		4.786	6.535	6.183	7.981	9.222	10.541	11.802	12.700	15.097	23.43

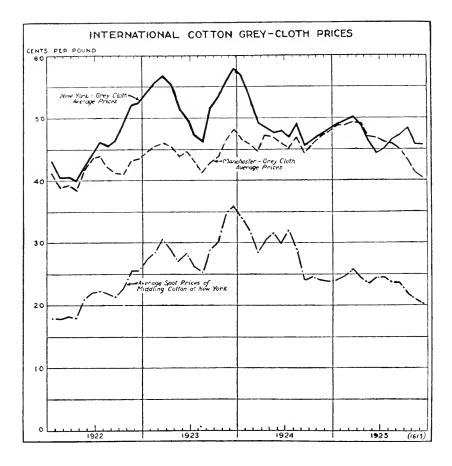
2 In June, 1948, the government announced a list of maximum prices on cotton goods. These prices were really in effect till the end of the year. After the armistice in November, however, business almost ceased and there was practically no market. This may explain some figures which would otherwise seem irregular. 1 This average includes, among others, eight print cloths, five sheetings, four drills, four standard colored goods, four bleached goods and two ducks.

Average Yearly Standard Colored Goods and Bleached Goods Prices

Sonree: Daily News Record

	Dec										
Сьотив	Average (1911-12-13)	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925
Standard 2.20 denim Standard fine chambray about	11.485	18.714	24.277	34.500	30.062	38.250	15.666	19.486	23.826	21.456	18.912
5.00 yard	6.625	8.000	13.500	19.875	20.500	34.620	12.375	14.281	14.230	12.466	12.057
	6.916	9.140	15.210	22.650	17.444	25.200	11.156	13.929	15.403	14.014	13,465
· · · · · · · · · · · · · · · · · · ·	6.194	7.244	11.000	17.694		19.305	12.329	13.820	14.395	14.395 12.207	11.116
Standard S-ounce ticking Standard branded bleached mus-	13.138	16.454	27.071	39.034	33.400	28.030	19.250	23.156	26.740	26.740 25.866	23.658
lin, Class A	8.432	10.050	14.800	24.000	25.045	33.500	16.684	17.278	18.497	18, 497 18, 337	17.996
lin, Class B	7.235	8.960	12.475	20.570	21.300	21.300	13.330	13.812	15.014	15.014 14.805	14.206
Class A	25.857	31.585	40.862	64.205	67.819	71.042	50.730	52.091	57.484	56.397	52.277
, 6	22.308	27.447	35.674	58.290		60.594 64.200	46.215	47.104	51.346	50.295	46.70s
_		_	_	_							

¹ In June, 1918, the government announced a list of maximum prices on cotton goods. These prices were really in effect till the end of the year. After the armistice in November, however, business almost ceased, and there was practically no market. This may explain some figures which would otherwise seem irregular.



International Comparative Grey Cloth Prices

[Cents per pound at current exchange]

Source: United States Department of Commerce

			New	York			MANCE	IESTER			Os	AKA	
WEEK	ENDED	1922	1923	1924	1925	1922	1923	1924	1925	1922	1923	1924	1925
January	3 10 17 24	43 88 43.48 13 04 42 08 41 27	53.86 53.79 54.26 55.15 55.75	57.47 57.71 56.83 55.36 54.83	48.70 48.92 49.21 49.43 48.98	41 72 41.83 40.62 39.83 39.39	44.15 44.17 45.21 45.35 45.05	47.44 47.10 46.28 45.61 46.31	48 95 49 06 49 04 48 98 48 69	43.72 43.10 42.96 41.68 40.81	45.40 45.75 45.87 45.73	46 00 45 41 45.02 45.29 45.90	46.74 46.64 46.58 44.97
February	7 14 21 28	$\begin{array}{c} 40.17 \\ 39.73 \\ 40.19 \\ 40.67 \end{array}$	55.59 55.66 55.81 56.20	54.32 53.66 51.62 50.75	48.98 49.52 49.59 50.06	38.91 38.32 39.31 39.94	45.66 45.69 45.98 45.96	46.70 46.24 44.30 44.86	48.87 48.74 48.69 48.60	39.29 39.57 39.86 38.63	44.81 45.12 45.62	46.77 46.34 45.13 44.76	44.88 45.40 44.95 45.24
March	7 · · · · · · · · · · · · · · · · · · ·	40 61 40 24 40 04 39.61	56.80 57.08 57.28 56.90	50.41 50.01 49.49 47.84	50.04 50.50 50.28 49.62	39.17 38.72 39.60 38.43	45.96 46.27 46.42 46.21	44.17 44.54 45.25 44.74	49.07 49.26 49.21 49.63	38.86 39.63 40.67 42.27	45.27 45.23 44.76 44.99	43.86 42.82 42.64 42.42	44.35 45.20 45.01 45.44
April	11 18 25	39.83 39.48 40.16 40.01	56.25 55.64 55.46 54.60	47.06 49.58 49.35 48.13	48.87 49.07 48.78 48.24	38.66 37.06 39.63 39.19	$\begin{array}{c} 46.01 \\ 45.69 \\ 45.21 \\ 45.07 \end{array}$	45 65 46.97 48.27 48.18	48.83 48.59 48.54 48.31	42.39 41.25 40.31 40.24	44.67 44.86 44.48 44.55	42.52 42.81 41.78 41.43	44.25 42.30 43.56 41.98
May	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	40.99 41.91 42.88 42.95 43.14	53.68 52.01 50.78 50.59 50.25	48.18 47.63 47.33 47.40 48.14	48.24 47.26 46.27 45.25 44.93	$\begin{array}{c} 40.04 \\ 42.06 \\ 43.16 \\ 43.03 \\ 42.91 \end{array}$	44.45 43.55 43.68 43.76 44.56	47.64 46.95 47.04 46.99 46.77	47 90 47.33 46.15 46.46 46.57	39 78 40 42 41 00 41 00 41.93	44.43 44.20 44.27 44.66 44.36	42 14 41.85 42 29 41.34 41.51	43.00 41.38 41.01 41.53 41.77
June	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	43.14 44.42 44.93 45.36	49.78 49.94 49.66 49.45	48.33 48.26 47.82 47.94	44.54 44.50 44.21 44.39	43.38 44.29 44.71 43.77	44.34 45.55 44.54 44.61	46.50 45.85 45.89 45.51	46.76 46.39 46.63 46.37	42.36 42.80 43.30 44.12	44.47 44.22 44.04 43.68	41.45 41.63 41.51 41.37	42.31 42.81 43.59 43.38
July	4 · · · · · · · · · · · · · · · · · · ·	45.28 46.47 46.55 46.19	48.38 48.06 46.92 46.11	47.16 46.89 46.70 47.80	44.98 44.98 45.35 45.42	45.29 44.22 43.75 42.80	43.57 43.04 43.04 41.89	44.77 44.45 45.23 46.45	46.38 45.75 46.53 45.99	45.06 44.97 45.48 41.31	42.89 42.41 41.54 39.53	41.55 41.34 41.51 41.91	44.91 45.54 44.21 44.28
August	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	46.03 45.41 44.70 45.70 45.90	45.85 45.81 46.16 47.48 47.62	50.29 49.99 49.61 48.72 47.59	46.85 46.63 46.63 47.02 46.44	42.13 42.06 41.37 43.59 41.85	40.27 41.54 41.60 41.75 41.55	48.07 47.72 47.84 46.19 45.30	46.47 46.19 45.91 45.83 45.52	43.91 43.86 42.69 42.88 41.87	39.61 39.08 37.70 37.89 39.57	42.78 43.81 44.20 43.83 44.05	44.34 44.81 44.66 44.69 44.10
September	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	45.98 46.39 47.14 47.59	49.59 52.44 53.55 54.55	46.96 45.86 44.48 45.79	45.88 46.18 47.82 48.79	41.69 41.36 41.00 40.62	41.44 43.55 43.97 44.17	45.33 44.57 44.15 44.00	44.49 44.46 45.54 45.51	40.71 39.28 38.22 36.97	39.47 39.54 40.37 42.41	44 08 43.84 43 23 43.43	43.77 44.29 44.55 43.95
October	3	47 51 48.48 49.29 50.71 51.48	54.02 52.56 53.27 53.28 53.71	47.23 47.65 45.76 45.63 45.83	49-16 49-08 48-81 47-92 47-05	40.32 40.63 41.16 42.08 42.44	44.01 43.22 43.76 44.16 44.84	45.70 46.31 45.94 45.55 46.26	44.81 44.30 42.92 42.92 41.92	37.72 38.66 38.96 38.89	$\begin{array}{c} 42.31 \\ 42.84 \\ 42.94 \\ 43.66 \\ 44.32 \end{array}$	43.96 43.04 43.12 43.72 43.99	43.97 43.56 43.19 42.72 41.78
November	7	51.61 53.19 52.75 52.51	55.41 56.98 57.12 57.98	45.98 47.60 48.48 48.74	46.05 45.71 45.76 45.74	43.39 43.62 43.64 43.84	46.32 47.11 48.14 48.55	47.01 47.58 47.62 47.85	41.12 41.05 41.08 41.15	39_67 39.43 39_60 39.79	45.14 44.85 45.97 47.60	44.15 46.22 46.34 47.34	42.53 42.17 42.68 42.21
December	5 · · · 12 · · · 19 · · · 26 · ·	52.28 51.68 52.70 53.46	58.67 57.97 57.91 57.91	48.17 47.88 47.88 48.62	45.87 45.36 44.82 43.98	43.46 41.10 43.86 43.03	49.11 47.10 48.27 48.32	47.55 48.11 47.96 48.34	40.85 40.68 39.89 39.89	40.06 40.48 41.67	47.22 45.99 46.72	46.70 46.79 46.61	41.66 40.61 39.91 40.83
January 2	, 1926 .	-			43.98				39.91				-
Annua	d average.	45.21	53.11	49.01	47.18	41.62	44.76	46.30	45.83	41.11	43.61	43.62	43.55

Cotton Finishing Industry 1

Source: National Association of Finishers of Cotton Fabrics

		Billings (Thousands of Yards) ²	Orders, Grey Yardage (Thousands of Yards)	Shipments (Cases)	Stocks (Cases)	Activity (Per Cent of Capacity
1921 monthly average		\$5,385	90,154	44,935	36,226	65
1922 monthly average		94,016	95,509	49,102	44,937	66
1923 monthly average		95,098	91,504	48,116	46,166	68
1924 monthly average		77,650	76,105	41,863	43,139	58
1925 monthly average		78,756	76,558	43,691	39,640	60
1924						
January		92,714	86,888	54,291	48,007	74
February		85,823	\$1,680	47,856	45,883	64
March		85,110	80,300	46,469	43,948	63
April		79,776	80,530	42,170	44,959	62
May		76,574	65,610	39,035	43,395	52
June		64,761	55,955	33,397	43,586	. 46
July		58,322	59,514	33,514	42,378	45
August	,	63,895	71,630	35,951	41,850	47
September		70,547	74,213	39,753	39,325	54
Oetober		86,765	90,601	44,331	40,664	67
November		75,822	81,689	39,052	41,516	58
December		91,686	84,652	46,531	42,162	67
1925						
January		81,174	84,459	49,319	36,925	62
February		81,650	83,293	47,961	36,101	66
March		94,039	86,776	48,879	36,121	69
April		88,986	76,505	45,776	39,296	64
May		75,463	63,128	40,573	40,460	52
June		70,593	65,103	40,133	41,461	51
July		69,281	69,364	39,153	40,710	52
August		63,994	69,176	37,903	41,151	50
September		72,257	81,079	42,608	40,711	58
October		85,859	85,907	47,556	39,917	67
November		78,239	75,453	39,676	40,511	61
December		83,541	78,448	44,754	$42,\!315$	62

 $^{^{-1}}$ Figures cover approximately 70 per cent of white goods, 55 per cent of dyed goods, and 25 per cent of printed goods finished outside of mills.

² Goods are billed as completed, hence billings approximate production.

Weekly Sales of Print Cloths at Fall River

[In thousands of pieces]

Source: J. M. Prendergast & Co.

				1918-19	1919-20	1920-21	1921-22	1922-23	1923-24	1924-2
August	1.			100	80		_	_	_	130
. ruguse	4.			70	50	30	150	100	20	100
	11 .			170	40	40	150	70	80	60
	18 .			150	100	60	120	100	130	40
	25.			80	40	20	200	200	350	30
September	r 1.			60	50	30	250	300	160	25
•	-8 .			60	60	30	100	100	200	25
	15 .			30	140	130	70	300	190	30
	22.			40	-250	120	100	250	180	100
	29.			50	180	30	200	250	130	100
Detober	6.			50	180	20	100	200	60	60
	13 .			50	160	10	80	225	50	40
	20 .			75	[-200]	10	60	250	100	60
	27 .			100	200	20	150	200	130	75
${ m November}$				20	200	20	110	200	130	300
	10 .			20	120	10	80	180	300	70
	17 .		.	20	100	10	80	160	60	40
	24 .			30	100	10	70	100	100	40
December	1.			30	160	20	100	90	180	30
	8.			30	150	15	180	80	85	40
	15.			40	160	20	180	150	50	30
	$\frac{22}{2}$.			40	110	50	230	200	60	75
	29 .			60	110	50	180	175	50	40
anuary	5.		.	40	180	100	150	175	50	70
	12 .		.	60	180	400	70	175	40	60
	19 .			50	160	250	75	300	50	70
	$\frac{26}{3}$.			50	100	100	100	240	50	80
February	$\frac{2}{2}$.			50	100	90	100	120	50	80
	$\frac{9}{10}$.		.	50	60	120	120	120	80	80
	$\frac{16}{20}$.			40	60	110	130	150	40	65
. 1	23 .			40	50	60	230	225	50	$\frac{75}{2}$
March	1.			60	40	60	150	250	80	70
	$\frac{8}{15}$.			200	90	50	100	200	40	60
	15 .			200	100	60	70	150	70	40
	$\frac{22}{20}$.			90	110	200	120	120	60	30
	29.			80	150	70	100	80	50	30
April	$\frac{5}{10}$.			370	120	60	90	70	120	25
	$\frac{12}{10}$.	•	.	340	100	75	110	40	200	40
	$\frac{19}{26}$.			230	120	90	300	40	50	30
Torr	$\frac{26}{2}$.	•	.	240	80	110	150	40	30	30
May	3.		•	230	40	140	250	60	40	30
	$\frac{10}{17}$.	•	.	320	40	180	225	40	40	30
	$\frac{17}{24}$.			320	15	170	175	30	25	40
	24 .	٠	.	211	50	80	150	30	25	30
une	$\frac{31}{7}$.		•	$\frac{100}{80}$	50	100	100	50	50	30
une	14 .	•	.	150	50	120	200	40	50	60
	$\frac{14}{21}$.		.		40	70	200	100	70	75
	$\frac{21}{28}$.	•		210	70	40	240	$\frac{75}{70}$	30	80
July	$\frac{28}{5}$.			120	30	60	$\frac{150}{120}$.	70	25	100
ury	$\frac{5}{12}$.	٠	•	130	30	80	120	50	25	100
			•	130	30	100	120	40	30	80
	$\frac{19}{26}$.		•	100	40	120	200	$\frac{25}{20}$	150	$\frac{75}{75}$
	26 .			- 1	-	120	100	20	150	75

New Bedford Fine Cotton Goods Production and Sales1

[Number of pieces]

Source: Fine Goods Exchange.

Production

	1919	1920	1921	1922	1923	1921	1925
January .	461,288	455,932	163,111	320,719	401,786	464,408	419,904
February	304,458	361,088	241,211	339,348	399,024	409,377	388,053
March .	340,245	415,755	330,160	397,800	497,511	420,622	444,886
April .	331,328	394,422	432,244	366,323	423,201	355,591	-449,266
May .	373,371	261,228	351,053	378,974	491,660	190,337	468,216
June .	302,522	384,444	393,526	404,202	458,605	284,726	404,157
July .	381,771	398,038	374,653	375,944	378,326	293,015	417,603
August .	426,212	355,788	359,703	410,858	430,072	318,513	402,103
September	370,322	310,531	386,929	414,782	430,361	325,279	371,500
October .	418,917	261,339	394,864	372,996	444,079	385,301	452,552
November	398,362	204,764	373,943	411,527	461,806	399,820	385,841
December	493,481	187,525	449,913	435,785	448,701	399,228	448,625

Sales 2

		1919	1920	1921	1923	1923	1924
Januarv .		103,448	414,411	565,511	229,380	556,440	250,360
February .		64,888	123,342	179,919	202,208	383,818	191,278
March .		369,172	192,299	287,897	319,917	440,066	201,28
April		1,060,880	235,573	339,970	273,626	215,503	225,32
May		776,982	41,522	323,132	347,368	180,914	127,819
June		470,555	55,130	331,815	518,068	265,859	215,566
July		563,514	53,448	306,589	93,964	211,147	464,19
August .		210,368	63,148	521,458	322,396	444,491	267,78
September		499,945	61,410	537,402	574,439	438,968	377,770
October .		640,361	46,321	314,858	666,787	327,694	251,728
November		239,493	24,156	191,440	393,453	390,943	457,359
December .		360,522	89,550	440,578	391,480	271,549	329,319

¹ Reported by 24 identical mills in the New Bedford district; representing about 50 per cent of the fine cotton industry in New England and from 20 to 30 per cent throughout the United States.

² Sales not reported in 1925.

Activity of the American Cotton Industry Source: United States Bureau of the Census

		 			or the tribute		
				Total Spindle Hours (Millions)	Hours per Spindle in Place	Hours per Spindle in Place relative to 1922	Per Cent of Capacity
1000 111	_	 	1	= =00	200		09.7
1922 monthly		•	•	7,723	209 222	100	93.7
1923 monthly		•		8,288		106	98.8
1924 monthly				6,696	177	85	78.6
1925 monthly	average		.	7,877	208	100	92.7
	1923						
January .				9,266	249	119	107.5
February .				8,449	227	109	109.6
March				9,531	255	122	108.3
April				8,787	236	113	109.3
May				9,309	249	119	107.7
June	•			8,385	224	107	98.7
July	•			7,136	191	91	87.3
August	•	 •		7,150 $7,569$	202	97	85.7
_	•		•	,			1
September .				7,482	200	96	93.2
October .				8,382	223	107	95.4
November .				8,015	213	102	96.6
December .				$7{,}139$	190	91	86.8
	1924						
January .				8,448	224	107	96.7
February .				7,304	194	93	89.8
March				7,073	187	89	82.4
April				6,770	179	86	79.9
May				5,908	156	75	67.5
June	•			,	141	67	
	•			5,336		65	64.6
July	•		•	5,158	136		60.6
August	٠		•	5,400	143	68	62.8
September .				6,415	170	81	76.1
October .				7,593	201	91	85.4
November .				7,124	188	90	87.5
December .				7,817	206	99	90.4
	1925						
January .				8,493	224	107	96.4
February .		 •	Ċ	7,868	208	100	100.0
March .				8,599	227	109	99.6
April .		 •		8,518	225	108	100.0
•		 •	•	'			
May				7,930	210	100	93.6
June				7,690	203	97	89.0
July .				7,298	192	92	84.6
August				6,954	184	88	80.5
September .				7,102	188	89	83.8
October				7,962	210	100	89.4
November				7,834	207	99	96.0
December				8,272	218	104	99.5
			-	- ,			

Changes in Cost of Living in the United States, 1913 to 1925

				Per Ce	Per Cent of Increase from 1913 (Average) to-	REASE FR	ом 1913 (AVERAGE)	то —			
ITEMS OF EXPENDITURE	Dec., 1914	Dec., 1915	Dee., 1916	Dec., 1917	Dec., 1918	June, 1919	Dec., 1919	June, 1920	Dee., 1920	May, 1921	Sept., 1921	Dec., 1921
Food Clothing Housing Fuel and light House-furnishing goods Miscellaneous All items	0.11.00 0.11.00 0.00 0.00 0.00 0.00	5.0 1.5 1.0 10.6 7.4 5.1	26.0 20.0 20.3 27.8 13.3 18.3 18.3	57.0 49.1 24.1 50.6 40.5	87.0 105.3 9.2 47.9 1113.6 65.8	84.0 114.5 14.2 14.2 45.6 125.1 73.2	97.0 168.7 25.3 26.8 163.5 90.2 90.3	119.0 187.5 34.9 71.9 192.7 101.4	78.0 51.1 51.1 51.1 51.1 108.2 4.0 108.2	252 592 658 60 7.14 108.8 108.8 4.08	23.88.89.17 1.1.0.17.17.8. E.	24.25 24.25 24.15 21.18

¹ No ehange.

Changes in Cost of Living in the United States, 1913 to 1925 - (Concluded)

				Реп Се	NT OF IN	Per Cent of Increase from 1913 (Average) to —	ом 1913 (AVERAGE)	To —			
Items of Expenditure	June, 1922	Sept., 1922	Dec., 1922	Mar., 1923	June, 1923	Sept., 1923	Dec., 1923	Mar., 1924	June, 1921	Sept., 1924	Dec., 1924	June, 1925
Food Clothing Housing Feel and light Mouse-furnishing goods All items	 41.0 60.9 74.2 102.9 101.5 66.6	39.8 71.3 61.1 83.6 102.9 101.1	46.6 71.5 61.9 86.4 100.2 100.5 69.5	41.9 74.4 62.4 86.2 117.6 100.3 68.8	44.3 74.9 63.4 80.6 122.2 100.3	49.3 64.4 64.4 81.3 192.4 101.1	35 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	25.8 67.0 82.3 82.3 101.1 4.07	4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:	46.8 72.3 68.0 79.1 1114.9 70.6	208.33 208.33 209.23 20	73.6 73.6 73.6 73.7 73.5 73.5 73.5 73.5 73.5 73.5 73.5

Wage Rates paid by Cotton Mills of Lancashire, England, since 1853

The table below gives the wage rates paid under the standard lists of Lancashire, in terms of percentage of the basic list prices. Basic list prices are indicated by 100; rates 5 per cent above list are expressed by 105; rates 5 per cent below list are expressed by 95, etc.

	**						Cotton	SPINNING	Cotton Weaving
	EN	D OF	1 EAR	_			Bolton List	Oldham List	Blackburn 1 and Uniform Lists
1853 .							No list	No list	Blackburn list adopted+10
1854-57							No list	No list	100
1858 .	Ċ						List adopted	No list	100
1859 .							100	No list	100
1860 .	•	•	•	•	•	•	105	No list	105
1861-65	•		•				100	No list	100
1866 .	•	•	•	•	•		105	No list	100
1867 .	•	•	•	•			100	No list	List revised
1868 .	•	•		•			100	No list	100
1869 .	•	•	•	•	•		95	No list	95
870	•	٠	•	•	•		95	No list	100
1871 .	•	•	•	•	•	•	100	No list	100
872-73	•		•	•	•	•	105	No list	100
1874 .	•	•	•	•	•	•	100	No list	100
1875 .	•	•	•	•			105	No list	100
1876 .	•	•	•	•	•		105	List adopted	100
1877 .	•	•	•	•	•		100	95	100
.878	•	•	•	•	•		100	85	90
.879 .	•	•			•		90	80	85
.880 .	•	٠	•	•			95	85	85
.881–82	•	•	•	•		•	95	90	90
1883 .	•		•	•	٠	•	95	90	85
1884 .	•	•	•		•	•	95	90	90
1885–87	٠	•	•				90	90 85	90
1888–89 1888–89	٠	•					95	90	90
เอออ=อย 1890 .	٠		•				100	90	90
1890 . 1891 .	•	•					100	95	90
1891 . 1892 .	•	•		•		•		95 95	Uniform list
1892 .	•	•	٠	•		٠	100	95	
1009 00							100	00.00	adopted - 10
1893-98	•	•			•		100	92.09	90
1899 .	•	•			٠		100	95	92.5
1900-04	•	•			٠		105	100	92.5
1905 .	٠						105	100	97.5
1906 .							105	105	100
1907-08							110	110	100
1909-11							105	105	100
1912-14							105	105	105
1915 .							110	110	105
1916 .							115	115	110
1917 .							140	140	140
1918 .							215	$\frac{215}{1}$	215
1919 .							245	245	245
1920 .							315 ²	315 ²	315 3
1921 .							245	245	245
1922 – 25							195	195	195

¹ Blackburn list succeeded by Uniform list in 1892.

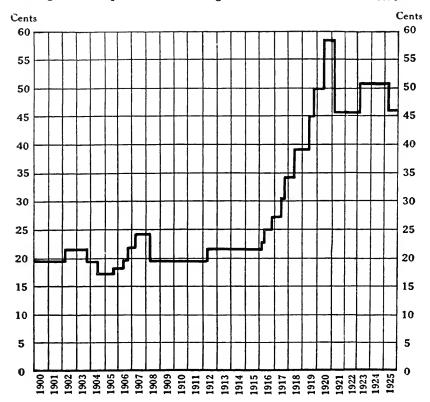
Blackburn list succeeded by Uniform list in 1892.
 Strippers and grinders, blowing-room operatives, and leading men in cotton rooms received in 1920 an additional 10 per cent on wages realized after the addition of the 70 per cent of the list.
 Tapers, dry tapers, warp dressers, and loom overlookers received an advance in 1920 of only 55 per cent of list, instead of the 70 per cent which other operatives received. In 1921 these operatives were reduced only 55 per cent instead of the 70 per cent by which other workers were cut down.

General Wage Changes in New Bedford since 1870

Period	Advance or Reduction from Previous Rate (Per Cent)	Percentage of January, 1870, Rate	Percentage of Pre-war Rate
January, 1870, to March, 1870 .	. –	100.00	
March, 1870, to December, 1873 .	. +10	110.00	_
December, 1873, to December, 1875	10	99.00	_
D 1 1000 1 1 1000	10	89.10	_
August, 1878, to January, 1880 .	10	80.19	_
1 1000 1 1 1000	. +10	88,20	-
April, 1880, to April, 1884	. +10	97.02	-
April, 1884, to April, 1885	10	87.31	_
1	10	78.57	
4 11 1000 / A 11 1000	. +10	86.42	-
1 7 1000 / 1 1 1000	. +5	90.74	_
1 1000 t. D I 1000	. +3	93.46	-
December, 1892, to September, 1893	. +7	100,00	_
September, 1893, to August, 1894.	10@15	87.50	-
August, 1894, to April, 1895	5	83.12	
April, 1895, to January, 1898	. +5	87.27	-
January, 1898, to April, 1899	. -10	78.54	-
April, 1899, to December, 1899 .	. +10	86.39	_
December, 1899, to April, 1902	. +10	95.02	_
1 1 1000 / To 1 1000	. +10	104.52	_
December, 1903, to July, 1906	10 ¹	95.02	_
July, 1906, to December, 1906 .	. +5	99.77	
December, 1906, to May, 1907 .	$+7\frac{1}{2}$	107.25	-
May, 1907, to April, 1908	. +10	117.97	_
1	10	106.17	_
March, 1912, to January, 1916 .	· +10	116.78	100.00
January, 1916, to April, 1916	. +5	122.61	105.00
April, 1916, to November, 1916 .	. +10	134.87	115.50
November, 1916, to June, 1917 .	. +10	148.35	127.05
June, 1917, to November, 1917 .	. +10	163.18	139.76
November, 1917, to June, 1918 .	. +10	179.49	153.74
June, 1918, to June, 1919	$+17\frac{1}{2}$	210.90	180.64
June, 1919, to December, 1919 .	. +15	242,53	207.74
December, 1919, to June, 1920 .	$+12\frac{1}{2}$	272.84	233.71
June, 1920, to January, 1921	. +15	313.76	268.77
January, 1921, to April, 1923	$-22\frac{1}{2}$	243.16	208.30
April, 1923, to January, 1925	$+12\frac{1}{2}$	273.56	234.34
January, 1925, to —	10	246.21	210.91

¹ Approximate reduction of 10 per cent to scale of December, 1899.

Wage Rates paid for weaving Print Cloths in Fall River



The above chart, based on the table at the top of the following page, shows the fluctuations in the amount paid by Fall River print cloth manufacturers to their weavers for weaving $47\frac{1}{2}$ yards of 28", 64 x 64, 7-yard print cloths. Wage rates of other classes of operatives, per hour or per piece, fluctuated in about the same ratio as those of weavers during the period covered. Accordingly this chart may be taken as indicating the general changes in the hourly or piece wage rates of Fall River mill-workers.

Wage Rates paid for weaving Print Cloths in Fall River

Prices paid for weaving $47\frac{1}{2}$ yards of 28-inch, 64 x 64, 7-yard print eloth

Period	Wage Rate	Advance or Reductions from Previous Rate (Per Cent)	Percentage of 1900 Rate	Percentage of Pre-war Rate
December, 1899, to March, 1902 .	\$0.1980	+10	100	_
March, 1902, to November, 1903.	2178	+10	110	_
November, 1903, to July, 1904 .	1980	$-9^{1}_{1}\bar{\sigma}$	100	_
July, 1904, to October, 1905.	1732	$-12\frac{1}{2}$	$87\frac{1}{2}$	_
October, 1905, to July, 1906	1861	$+7\frac{1}{2}$	94	_
July, 1906, to November, 1906 .	1980	$+6_{10}^{4}$	100	
November, 1906, to May, 1907 .	2178	+10	110	_
May, 1907, to May, 1908	2396	+10	121	_
May, 1908, to March, 1912	1966	-17 ₁ ° 0	99	_
March, 1912, to January, 1916 .	2163	+10	109	100.00
January, 1916, to May, 1916 .	2271	+5	115	105.00
May, 1916, to December, 1916 .	2498	+10	126	115.50
December, 1916, to June, 1917 .	2748	+10	139	127.05
June, 1917, to December, 1917 .	3023	+10	154	139.76
December, 1917, to June, 1918 .	3401	$+12\frac{1}{2}$	172	157.23
June, 1918, to June, 1919	3911	+15	198	180.81
June, 1919, to December, 1919 .	4498	+15	227	207.93
December, 1919, to June, 1920 .	5060	$+12\frac{1}{2}$	256	233.92
June, 1920, to January, 1921	5819	+15	293	269.01
January, 1921, to April, 1923	4510	$-22\frac{1}{2}$	228	208.48
April, 1923, to January, 1925	5074	$+12\frac{1}{2}$	257	234.54
January, 1925, to ——	4567	-10	231	211.09

Average Cash Dividends of New Bedford and Fall River Mills

Source: Sanford & Kelly of New Belford and G. M. Haffards & Co. of Fall River

YEAR	New Bedford	Fall River
1910	9.59 per cent on \$31,865,100 capital	6.80 per cent on \$26,856,700 capital
1911	5.50 per eent on \$36,821,300 capital	4.96 per cent on \$27,561,700 capital
1912	4.40 per cent on \$37,126,300 capital	4.25 per cent on \$27,561,700 capital
1913	5.63 per cent on \$38,925,000 capital	6.87 per cent on \$30,179,100 capital
1914	4.76 per cent on \$39,225,000 capital	4.03 per cent on \$30,349,700 capital
1915	7.83 per cent on \$39,725,000 capital	3.77 per cent on \$30,349,700 capital
1916	7.33 per cent on \$40,675,000 capital	8.01 per cent on \$30,486,700 capital
1917	16.47 per cent on \$49,012,300 capital	13.08 per cent on \$33,111,700 capital
1918	12.66 per cent on \$50,656,300 capital	18.02 per cent on \$34,111,700 capital
1919	13.30 per cent on \$50,572,500 capital	14.46 per cent on \$34,111,700 capital
1920	26.17 per cent on \$50,966,500 capital	32.77 per cent on \$33,860,000 capital
1921	9.19 per cent on \$59,374,000 capital	8.01 per eent on \$38,610,000 capital
1922	9.72 per cent on \$61,735,200 capital	9.60 per cent on \$37,210,000 capital
1923	6.96 per cent on \$72,251,900 capital	7.81 per cent on \$44,666,700 capital
1924	5.13 per cent on \$73,251,900 capital	6.45 per cent on \$43,665,000 capital
1925	5.30 per cent on \$74,028,900 capital	5.03 per cent on \$43,585,009 capital

Gross Manufacturing Margins on Staple Yarns and Cloths in the United States

[Cents per pound]

Source: Merchants National Bank of Boston

		Average Margin on Four Yarns	Average Margin on Three Print Cloths	Average Margin on Three Sheetings	Average Margin on Two Ducks and Two Drills
August	4, 1923	9.85	18.90	13.15	14.80
September	1, 1923	11.18	19.32	12.45	13.42
October	6, 1923	10.36	18.88	12.51	13.56
November	3, 1923	10.04	17.54	10.74	10.99
December	1, 1923	9.82	16.61	8.20	9.98
January	5, 1924	8.56	16.68	9.07	11.37
February	2, 1924	5.74	14.09	7.95	10.29
Mareh	1, 1924	7.16	14.80	9.99	11.35
April	5, 1924	4.81	13.11	7.50	8.29
May	3, 1924	6.50	12.54	6.65	8.12
June	7, 1924	5.98	14.56	7.03	7.43
July	5, 1924	3.43	12.18	5.31	7.01
August	2, 1924	9.24	17.52	10.86	9.97
September	6, 1924	10.34	18.58	12.69	14.60
Oetober	4, 1924	10.01	18.27	12.02	13.18
November	1, 1924	12.07	18.34	13.60	14.92
December	6, 1924	12.08	20.92	14.09	16.10
January	3, 1925	10.45	20.96	13.03	14.41
February	7, 1925	8.93	20.60	12.66	14.11
March	7, 1925	7.82	19.49	10.83	12.12
April	4, 1925	8.93	19.34	11.65	13.61
May	2, 1925	6.44	18.58	10.51	13.38
June	6, 1925	5.84	16.25	8.09	12.00
July	4, 1925	5.72	16.26	7.49	10.07
August	1, 1925	6.12	17.04	7.64	11.17
September	5, 1925	8.27	20.60	11.45	13.95
October	3, 1925	10.55	22.20	13.62	13.99
November	7, 1925	10.54	21.69	14.45	15.66
December	4, 1925	10.54	21.48	13.87	14.82
January	1, 1926	9.24	19.67	12.46	14.48

These weekly average margins show the spread between the price of cotton after making an allowance for waste and the price of yarns and eloths.

United States Exports of Cotton Machinery, 1925

Source: United States Department of Commerce

Country of Destination	Looms	Carding Machinery	Spinning and Twisting Machinery	Knitting Machinery	Other Cotton Machinery
Belgium	\$987	_	_	\$33,964	\$6,924
France	816	\$51,095	\$52,391	139,664	56,073
Germany	111,147	1,700	165,615	83,924	96,172
Italy	378,491	433	88,687	369,841	107,076
Netherlands	51,970	_	_	989	
Poland and Danzig .	_	_	_	6,800	133
Spain	7,675	40	9,934	54,402	219
United Kingdom	26,454	_	50	1,869,316	38,578
Canada	245,267	13,553	69,595	446,082	347,976
Mexico	7,509	254	2,939	189,793	75,498
Argentina	127	_	_	454,088	3,385
Brazil	$\bar{8}1,925$	730	_	466,502	11,557
Chile	13,199	_	_	51,683	704
Colombia	2,664	51	474	13,128	16,482
British India	486	_		17,613	31,938
China	9,256	12,707	24,650	50,330	89,066
Hongkong	-	_	_	3,387	_
Japan	26,218	6,278	18,437	61,050	48,341
Australia	21,941	_	131	190,362	2,062
Total	\$990,877	\$88,360	\$441,086	\$4,706,769	\$1,007,926

Estimated Cost, as of January 1, 1911, and January 1, 1926, of erecting and equipping Complete a Spinning Mill of 50,000 Spindles to be built in New England and based on Machinery Manufacturers' List Prices making No. 16 Carded Yarns for Hosiery Trade finished on Cones and Skeins

Source: Lockwood, Greene & Co., Inc.

Spinning Mill	1911	1926
Mill buildings (including warehouse)	\$252,800 00	\$493,446 00
Fire protection	15,400 00	28,845 00
Lighting	8,400 00	16,511 00
Heating and humidifying	17,600 00	27,550 00
Shafting	7,100 00	8,550 00
Motor and power wiring	56,000 00	88,578 00
Belting	8,800 00	15,000 00
Supplies and miscellaneous equipment	40,100 00	72,000 00
Power plant complete	198,300 00	360,360 00
Textile machinery and erection	496,400 00	772,135 00
Freights	15,800 00	17,460 00
Engineering and contingencies	111,800 00	190,044 00
	\$1,228,500 00	\$2,090,479 00

Above buildings of slow-burning construction, three stories for spinning, one story for picking, and four stories for storehouse for a six months' supply.

Sprinkler and hydrants for fire protection, electric lights, steam coils for heating, individual heads for humidifiers.

Power houses with steam turbines.

Drives are individual motors on pickers, two and four frame for roving and spinning, and group drive for balance of machinery.

Estimated Cost as of January 1, 1911, and January 1, 1926, of erecting and equipping a Weaving Shed to be built in New England and based on Machinery Manufacturers' List Prices containing 1,280 Automatic Looms to weave Print Cloths 38½ Inches Wide, 5.35 Yard 64 x 60 Threads per Inch and of Carded No. 28.5 Warp and No. 39 Filling

Source: Lockwood, Greene & Co., Inc.

Weave Shed	1911	1926
Manufacturing buildings, including plumbing	\$180,500 00	\$376,473 00
Fire protection, including tank, hose houses, hy-		
drants and sprinklers	10,400 00	18,146 00
Lighting, including transformers and wiring	4,100 00	8,051 00
Heating and humidifying	18,500 00	29,165 00
Shafting	11,400 00	13,775 00
Motors and power wiring	16,700 00	25,337 00
Belting	5,600 00	9,900 00
Supplies	5,000 00	9,000 00
Power plant complete	110,000 00	192,933 00
Textile machinery	243,700 00	311,736 00
Freight	5,000 00	8,730 00
Engineering contingencies	61,100 00	100,225 00
	\$672,000 00	\$1,102,471 00

Buildings of slow-burning construction. Shed one story with basement and saw-tooth roof. Sprinkler and hydrants for fire protection, electric lights, steam coils for heating, individual heads for humidity. Power house with steam turbine. Group drive with shafting in basement.

Figured that yarns would be received on beams and cones or tubes.

Goods woven on automatic looms.

Same equipment figured for both 1911 and 1926, but with prices changed according to years.

Estimated Costs per Spindle of Four Different Mills Each of 50,000 Spindles Complete as of January 1 for Years 1910 to 1926 to be built in New England and based on Machinery Manufacturers' List Prices.

Source: Lockwood, Greene & Co., Inc.

				SPINNIN	g Mills	Spinning and V	VEAVING MILLS
	YE	AR		No. I Hosiery Yarns Carded No. 16	No. 2 Hosiery Yarns Combe l No. 17–5	No. 3 Print Cloths 3 \(5.5 \) wide \(-5.35 \) Yard 64 \(x \) 60 Cardel No. 28.5 Warp Cardel No. 39 Filling	No. 4 Lawns 38,5"— 6,40 Yard 104 x 112 Combed No. 66 Warp Combe l No. 96 Filling
1910				\$25 02	\$32 15	\$28-28	\$24_46
1911				24 48	31 46	27 67	23 93
1912				24 55	31 55	27 - 75	$24 \ 00$
1913				24 36	31 30	27 53	23 81
1914				23 21	29-82	26 23	22 68
1915				24 14	31 02	27 28	$23 \ 59$
1916				26.78	$34 \ 42$	30 27	26 18
1917				33 29	42 78	37 63	32 - 54
1918				40 07	51 50	45 29	39 17
1919				49 08	63 08	55 48	47 98
1920				64-63	83 05	73 05	63 17
1921				61 37	78 87	69 36	59 99
1922				47 61	61 19	53 82	46 54
1923				45 97	59 08	51 96	44 94
1924				46 76	60 09	52 85	45 71
1925				44 79	57 35	50 44	43 62
1926				41 81	53 73	47 - 26	40 91

No. 1. Three-story mill, one-story picker house, four-story storehouse. Yarn made of double roving and finished on cones and in skeins.

All buildings of slow-burning construction. Storehouses figured on a six months' supply. All power plants have complete steam turbine unit. The mill heated by steam coils and humidified by individual heads.

The drives are figured as individual motors on pickers, two and four frame for roving and spinning and group drives for balance of machinery.

No. 2. Four-story mill, two-story picker house, four-story storehouse. Yarn made of double roving and finished on cones and in skeins.

No. 3. Spinning mill four stories, weave shed one story and basement and saw-tooth roof. Yarns made of double roving and woven on automatic looms.

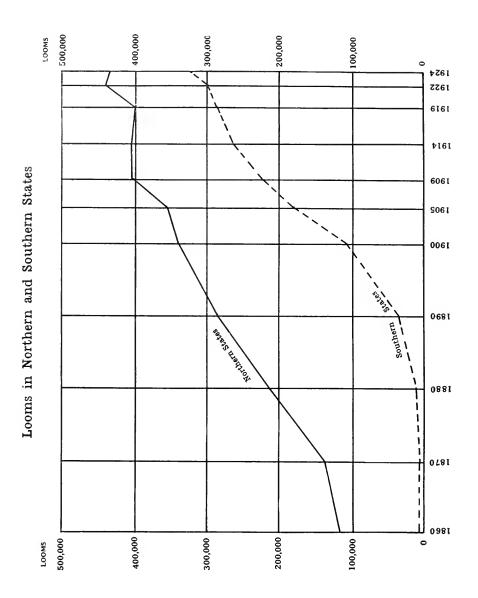
No. 4. Spinning mill three stories, weave shed one story and basement and sawtooth roof. Yarn made of double roving and woven on plain looms.

Cost of Principal Machines in Cotton Manufacturing Equipment made up from the Machinery Manufacturers' List Prices as of January 1 of Each Year from 1910 to 1926

Source: Lockwool, Greene & Co., Inc.

Mill Con- struc- tion po Square Foot	Plain Loom	Spinning Frame per Spindle	Roving Frame per Delivery	Drawing Frame per Delivery	Comber	Card	Finisher Picker	DATE
\$0.9	\$83 00	\$2 60	\$6 50	\$60 00	\$1,250_00	\$600 00	\$750 00	1910
9	83 00	2 50	5 60	60 00	1,250 00	550 - 00	700 00	1911
9	83 00	2 50	5 75	-55 - 00	1,250 00	600 00	750 00	1912
9	83 00	2 50	5 50	55 00	1,200 00	$550 \ 00$	700 00	1913
9	83 00	2 00	5 00	55 00	1,150 00	500 00	675 00	1914
9	83 00	2 20	5 50	60 00	1,300 00	$525 \ 00$	700 00	1915
1 0	85 00	2 65	6 75	60 00	1,300 00	$650 \ 00$	750 00	1916
1 3	101 00	3 90	8 50	75 00	1,400 00	850 00	1,000 00	1917
1 6	$152 \ 00$	4 50	10 00	90 00	1,800 00	975 00	1,280 00	1918
2 0	164 - 50	5 50	13 00	115 00	2,000 00	1,200 00	1,600 00	1919
2 9	$213 \ 50$	6 00	14 50	125 00	2,400 00	1,325 00	1,760 00	1920
2 5	213 - 50	7 00	18 00	160 00	2,500 00	1,600 00	1,920 00	1921
1 8	147 00	6 00	14 50	125 00	2,250 00	1,325 00	1,600 00	1922
2 1	135 00	5 00	11 50	100 00	2,250 00	1,100 00	1,440 00	1923
1 9	$152 \ 00$	5 50	13 00	115 00	2,250 00	1,200 00	1,600 00	1924
1 9	$152 \ 00$	5 00	11 50	100 00	2,250 00	1,100 00	1,440 00	1925
1 8	152 00	4 25	10 00	90 00	2,250 00	960 00	1,280 00	1926

Note. — The above prices for mill construction are for a three-story building with unfinished basement of slow-burning construction, exclusive of service equipment. Unit costs of construction are based on a total floor area of 200,000 square feet.



Cotton Looms in the United States

	YE	AR		Northern States	Southern States	Western States
1860 .				118,529	6,789	995
1870 .				149.956	6,256	1,098
1880 .				212,019	11,898	1,842
1890 .				285,190	36,266	3,410
1900 .				340,078	110,015	5,653
1905 .				355,806	179,752	5,352
909 .				404,365	223,403	5,195
914 .				405,274	$263,\!683$	3,797
919 .				401,069	286,933	4,167
922^{1}				440,096	297,614	6,124
9241				433,222	325,608	6,292

¹ Figures from Dockham's Textile Directory. These statistics are not strictly comparable with the Census figures, as Dockham includes all cotton manufactures, while the Census includes only cotton goods.

Active Cotton Spindles in the United States, by States

	1920	1921	1922	1923	1924	1925
New England States:						
Maine	. 1,124,822	1,114,020	1,121,527	1,137,651	1,133,732	1,130,728
New Hampshire .	. 1,436,748	1,428,415		1,384,757	1,238,078	1,245,968
Vermont	. 144,808		144,808	144,808	144,808	144,808
Massachusetts .		11,582,691		,	,	9,766,276
Rhode Island .	. 2,658,415	2,766,426		2,837,903	2,732,520	
Connecticut	. 1,361,911	1,351,429		1,325,856		
Total New Englan	d					
States		18,387,789	17,938,805	18,053,716	17,066,036	15,975,442
			, ,	, ,	, ,	, ,
Other Non-Cotton-grow	r-					
ing States:						
New York	. 992,678	990,252	963,583	1,000,234	951,640	870,180
New Jersey	411,165	421,699	424,591	440,560	437,854	480,112
Pennsylvania .	. 242,215	221,311	185,550	164,507	169,216	145,783
Maryland	142,792	142,792	112,936	112,024	104,500	92,253
Indiana	. 81,756	80,256	79,256	80,756	81,480	81,980
Illinois	57,094	51,640				
Other	. 34,846	42,640	39,420	39,124	35,652	
Total Other Non-Co	ot-					
ton-growing State	es 1,962,546	1,950,590	1,862,768	1,895,925	1,839,124	1,764,762
Cotton-growing States:						
Virginia	. 573,610	585,650	628,538	654,785	688,870	
North Carolina .	. 4,953,889	5,152,121	5,251,467	5,463,547	5,763,334	5,909,660
South Carolina .	. 4,966,460	5,006,258				
Georgia	2,536,531	2,640,800	2,598,070	2,682,730		
Alabama	. 1,212,516	1,281,444		1,294,512		
Mississippi	. 162,876	159,372	172,612	178,508	177,508	142,213
Tennessee	. 397,329	413,589	424,560	437,168	459,160	468,56
Kentucky	. 95,078	95,288	93,184	92,684	91,284	92,763
Louisiana	. 103,128	103,128	97,128	94,748	94,748	89,56
Texas	. 143,054	166,468	168,192	175,104	193,160	$225,\!862$
Other	. 86,512	104,870	108,944	129,536	146,228	144,24
Total Cotton-groy		-				
ing States .	. 15,230,983	15,708,988	15,906,165	16,310,360	16,944,178	17,292,042
Total United State	es 35,480,953	36.047.367	35,707,738	36,260,001	35.849.338	35,032,246

Cotton Spindles in Place and Spindle Hours, by Months

Months Control States April 37,868,968 37,410,388 37,011,472 5,431,436,281 7,543,166,131 8,020,016 7,500,017,300,016 7,500,017,300,016 7,500,017,300			Сотто	N SPINDLES I	n Place	Act	ACTIVE SPINDLE HOURS			
United States: August 37,868,968 37,410,388 37,011,472 5,431,436,281 7,543,166,431 8,020,0 September 37,901,344 37,456,968 37,002,527 6,471,791,548 7,561,154 8,021,98,231 8,729,4 November 37,990,523 37,521,136 37,001,161 7,655,209,854 8,407,143,031 8,279,4 November 37,980,576 37,560,088 37,152,233 37,152,233 7,143,314,102 8,021,98,231 8,725,4 January 37,905,769 37,805,760 37,723,332 37,219,867 8,553,990,865 8,346,739,363 9,274,1 March 37,805,722 37,743,332 37,281,827 7,882,607,663 7,099,773,116 8,495,36 April 37,808,900 37,763,106 37,280,900 37,281,827 8,553,990,865 8,346,739,363 9,274,1 Juhy 37,982,464 37,785,414 37,388,248 7,686,267,5604 5,41,271,010 8,346,739,363 9,274,1 September 17,292,194 16,533,760 16,078,796 16,078,796	MONTH AND	STATE	1924-25	1923-24	1922-23	1924-25	1923-24	1922-23		
September 37,901,344 37,456,968 37,002,527 6,471,791,548 7,506,127,463 7,7806 October 37,903,230 37,521,136 37,001,164 7,655,200,854 8,407,143,031 8,229,48 December 37,939,772 37,620,324 37,185,351 7,131,106,264 7,152,234,151 8,235,8 January 37,995,698 37,723,338 37,219,867 8,533,990,895 8,346,730,363 9,274,1 March 37,805,122 37,743,958 37,317,366 8,534,90,895 8,346,730,363 9,274,1 April 37,842,464 37,785,166 37,281,905 8,520,044,774 6,775,823,019 8,780,301 June 37,842,464 37,854,144 37,316,792 7,309,549,004 5,182,493,618 7,143,8 Cotton-growing States: August 17,292,194 16,533,760 16,100,945 4,858,259,078 4,858,758,068 4,568,1 April 17,396,394 16,683,760 16,103,311 4,561,827,550 4,466,159,678 4,357,8 April 17,421,466 <th>Мочтн</th> <th>s</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Мочтн	s								
September 37,901,344 37,456,968 37,002,527 6,471,791,548 7,506,127,463 7,780,6 October 37,903,230 37,521,130 37,001,164 7,655,200,854 8,407,143,031 8,229,4 December 37,939,772 37,620,324 37,185,351 7,131,1016,264 8,021,988,231 8,728,4 January 37,925,698 37,723,368 37,219,867 8,533,990,895 8,346,730,363 9,274,1 March 37,805,122 37,743,958 37,317,366 8,534,908,956 7,099,773,116 8,449,5 April 37,842,464 37,854,900 37,783,106 37,281,916 8,520,044,774 6,775,823,019 8,780,3 June 37,842,464 37,812,164 37,368,248 7,368,248 7,368,275,666 5,344,271,010 8,320,444,774 6,775,823,019 8,782,44 July 37,928,792 37,804,018 37,408,689 7,309,549,004 5,182,493,618 7,143,8 Cottober 17,296,496 16,619,138 16,100,945 4,858,259,078 4,858,758,068 4,568,1 </th <th>United States:</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	United States:									
October 37,903,230 37,524,136 37,031,161 7,655,209,854 8,407,143,031 8,279,4 November 37,899,658 37,576,098 37,576,098 37,152,233 7,143,314,102 8,021,988,231 8,279,4 December 37,897,772 37,620,324 37,185,351 7,143,314,102 8,014,547,241 7,152,234,151 8,235,8 January 37,955,608 37,272,3368 37,219,867 7,582,607,663 7,097,494,954 8,346,739,363 9,274,1 March 37,808,900 37,63,106 37,280,900 8,514,674,747 8,614,547,474 6,775,823,019 8,755,6 April 37,842,464 37,785,414 37,316,792 7,311,831,847 5,908,438,000 9,302,8 July 37,928,792 37,804,018 37,408,689 7,309,549,004 5,182,493,618 7,143,8 Cotton-growing States: 17,292,194 16,533,760 16,078,796 16,153,311 4,651,216,162,162 4,687,220,552 4,406,612,09 4,357,86 September 17,290,496 16,697,216 16,153,31	August		37,868,968	37,410,388	37,041,472	5,434,436,281	7,543,166,431	8,029,031,94		
November 37,899,058 37,576,098 37,152,233 7,143,314,102 8,021,988,231 8,728,4 December 37,939,772 37,620,324 37,185,351 7,811,16,264 7,152,234,451 8,285,8 February 37,890,576 37,725,332 37,218,827 7,892,607,663 7,099,773,16 8,495,50 March 37,805,122 37,743,958 37,317,396 8,514,547,421 7,071,494,954 9,535,6 April 37,808,900 37,783,106 37,280,900 87,200,909 8,614,547,421 7,071,494,954 9,535,6 June 37,842,464 37,785,414 37,358,248 7,686,275,664 5,751,82,019 8,703,388,000 9,302,84 July 37,928,792 37,804,018 37,408,689 7,309,549,004 5,182,493,618 7,143,8 Cotton-growing States: August 17,292,194 16,673,760 16,078,796 4,485,252,507 4,409,612,099 4,357,8 November 17,292,194 16,679,376 16,153,311 4,561,827,959 4,653,584,999 4,623,588,7 <td>September .</td> <td></td> <td>37,901,344</td> <td>37,456,968</td> <td>37,062,527</td> <td>6,471,791,548</td> <td>7,506,127,463</td> <td>7,780,694,80</td>	September .		37,901,344	37,456,968	37,062,527	6,471,791,548	7,506,127,463	7,780,694,80		
November 37,899,058 37,556,098 37,152,233 7,143,314,102 8,021,988,231 8,728,4 December 37,939,772 37,620,324 37,185,351 7,811,016,264 7,152,234,151 8,235,8 8,235,8 8,36,739,363 9,274,151 8,235,8 5,339,90,85 8,316,739,363 9,274,151 8,255,8 8,36,739,363 9,274,161 8,49,5 8,53,990,85 8,316,739,363 9,274,161 8,449,5 8,53,990,85 8,316,739,363 9,274,161 8,449,5 8,53,990,85 8,316,739,363 9,274,161 8,449,5 7,892,607,663 7,099,773,416 8,449,5 8,449,5 8,520,044,774 7,071,494,954 9,535,6 8,520,044,774 7,071,494,954 9,535,6 8,520,044,774 7,091,484,964 8,788,20 9,002 8,780,3 8,520,044,774 5,098,438,000 9,302,8 9,002 1,702,149,954 9,302,84 7,309,549,004 5,182,493,618 7,143,8 Cotton-growing States August 17,292,194 16,533,740 16,100,945 4,087,220,552 4,409,612,09 4,358,2 4,601,949 4,	October .		37,908,230	37,524,136	37,091,164	7,655,209,854	8,407,143,031	8,279,416,54		
January	November .		37,899,058	37,576,098	37,152,233	7,143,314,102	8,021,988,231			
February	December .		37,939,772	37,620,324	37,185,351	7,841,016,264	7,152,234,451	8,235,857,30		
February 37,890,576 37,725,332 37,281,827 7,892,607,663 7,099,773,416 8,449,5 March 37,805,122 37,743,983 37,317,396 8,614,547,421 7,071,494,954 9,535,6 April 37,808,900 37,763,106 37,280,900 37,317,396 8,520,044,774 6,775,823,019 9,535,6 May 37,842,464 37,785,414 37,316,792 7,931,831,847 5,908,438,000 9,302,8 June 37,843,208 37,812,164 37,358,248 7,686,275,664 5,341,271,010 8,391,2 July 37,928,792 37,804,018 37,408,689 7,686,275,664 5,341,271,010 8,391,2 Cotton-growing States: 17,238,176 16,471,026 16,078,796 3,355,675,020 4,456,159,678 4,398,2 September 17,292,194 16,687,706 16,106,644 4,858,259,078 4,838,758,068 4,561,827,950 4,456,159,678 4,398,2 October 17,296,496 16,687,313 16,106,644 4,858,259,078 4,838,758,068 4,691,4 <td>January .</td> <td></td> <td>37,925,698</td> <td>37,723,368</td> <td>37,219,867</td> <td>8,553,990,895</td> <td></td> <td>9,274,139,54</td>	January .		37,925,698	37,723,368	37,219,867	8,553,990,895		9,274,139,54		
March 37,805,122 37,743,958 37,317,396 8,614,547,421 7,071,494,954 9,535,66 April 37,808,900 37,763,106 37,280,909 8,520,044,774 7,971,494,954 9,535,66 June 37,842,464 37,785,414 37,316,792 7,931,831,847 5,908,438,000 9,302,8 July 37,928,792 37,804,018 37,408,689 7,636,275,664 5,314,271,010 8,391,2 July 37,928,792 37,804,018 37,408,689 7,309,549,004 5,182,493,618 7,143,8 Cotton-growing States: 17,296,496 16,619,138 16,106,644 4,858,259,078 4,456,159,678 4,398,2 September 17,296,496 16,619,138 16,711,957 4,653,584,790 4,653,584,790 4,653,584,790 4,653,584,790 4,653,584,790 4,653,584,790 4,663,588,488 4,071,199,038 4,240,5 5,182,408,948 4,240,5 5,182,408,948 4,240,5 5,182,408,948 4,240,5 5,260,626,243 5,024,068,904 5,002,93 5,121,1 4,623,100,481 4,071,199,038 <td>February .</td> <td></td> <td>37,890,576</td> <td>37,725,332</td> <td></td> <td></td> <td></td> <td>8,449,558,69</td>	February .		37,890,576	37,725,332				8,449,558,69		
April 37,808,900 37,763,106 37,280,909 8,520,044,774 6,775,823,019 8,780,3 May 37,842,464 37,785,444 37,316,792 7,931,831,847 5,908,438,000 9,302,8 June 37,843,208 37,812,164 37,358,248 7,686,275,664 5,341,271,010 8,391,2 July 37,928,792 37,804,018 37,408,689 7,309,549,004 5,182,493,618 7,143,8 Cotton-growing States: August 17,292,194 16,533,760 16,100,945 4,087,220,552 4,409,612,099 4,357,8 October 17,296,496 16,619,138 16,171,957 4,651,827,959 4,653,584,790 4,691,4 November 17,358,138 16,734,332 16,171,957 4,623,100,481 4,071,199,038 4,240,5 January 17,369,6394 16,892,768 16,311,880 5,187,082,773 4,315,537,290 4,573,3 May 17,495,584 17,019,124 16,365,624 18,292,550 4,838,2480,926 3,743,338,688 5,116,9 July	March		37,805,122	37,743,958	37,317,396			9,535,670,16		
May 37,842,464 37,785,414 37,316,792 7,931,831,847 5,908,438,000 9,302,8 June 37,843,208 37,812,164 37,358,248 7,686,275,664 5,311,271,010 8,301,2 July 37,928,792 37,804,018 37,408,689 7,309,549,004 5,182,493,618 7,143,8 Cotton-growing States: 17,292,194 16,533,760 16,100,945 4,087,220,552 4,499,612,009 4,357,8 October 17,299,084 16,687,216 16,153,311 4,561,827,959 4,653,584,790 4,691, November 17,396,394 16,804,542 16,223,993 5,260,626,243 5,024,088,904 5,002,9 February 17,421,466 16,846,542 16,274,772 4,786,824,859 4,233,105,203 4,237,332 May 17,461,172 17,019,124 16,350,363 4,832,2480,926 3,743,338,688 5,116,9 June 17,520,574 17,129,120 16,385,263 4,725,126,122 3,400,515,954 4,109,1 August 18,563,624 18,895,368	April		37,808,900	37,763,106	37,280,900	8,520,044,774		8,780,378,77		
June 37,843,208 37,812,164 37,358,248 7,686,275,664 5,341,271,010 8,391,2 July 37,928,792 37,801,018 37,408,689 7,309,549,004 5,182,493,618 7,143,8 Cotton-growing States: 17,238,176 16,471,026 16,078,796 3,355,675,020 4,456,159,678 4,398,2 September 17,296,496 16,619,138 16,100,945 4,858,259,078 4,838,758,068 4,568,1 November 17,396,394 16,687,216 16,153,311 4,561,827,959 4,653,584,790 4,691,4 January 17,396,394 16,803,700 16,223,993 5,260,626,243 5,024,068,904 5,002,9 February 17,421,466 16,846,542 16,274,772 4,786,824,859 4,231,105,203 4,573,3 March 17,495,584 17,072,058 16,350,363 4,832,480,926 3,743,338,688 5,111,9 July 17,634,948 17,226,118 16,458,116 4,501,269,940 3,326,046,554 4,193,2 New England: 18,566,824 18,923,550	May		37,842,464	37,785,414		7,931,831,847		9,302,814,95		
July 37,928,792 37,804,018 37,408,689 7,309,549,004 5,182,493,618 7,143,8 Cotton-growing States: August 17,238,176 16,471,026 16,078,796 3,355,675,020 4,456,159,678 4,398,2 September 17,292,194 16,533,760 16,100,045 4,087,220,552 4,409,612,099 4,357,8 October 17,296,496 16,619,138 16,166,644 4,858,259,078 4,838,758,068 4,568,1 November 17,396,394 16,687,216 16,153,311 4,661,827,959 4,653,584,790 4,691,4 January 17,396,394 16,803,700 16,233,933 5,260,626,243 5,024,008,904 5,002,908 4,573,33 March 17,429,278 16,922,768 16,311,880 5,187,082,773 4,315,537,290 5,121,1 April 17,495,584 17,072,058 16,336,363 4,832,480,926 3,743,338,688 5,114,93,2 New England: 18,563,624 18,923,550 18,938,386 1,871,881,644 2,775,639,087 3,222,9 September	June		37,843,208	37,812,164				8,391,259,60		
August 17,238,176 16,471,026 16,078,796 3,355,675,020 4,456,159,678 4,398,2 September 17,292,194 16,533,760 16,100,945 4,087,220,552 4,409,612,009 4,357,8 October 17,296,496 16,619,138 16,106,644 4,858,259,078 4,838,758,068 4,568,1 November 17,396,394 16,687,216 16,153,311 4,61,827,959 4,653,584,790 4,623,100,481 4,071,199,038 4,240,612,009 4,240,612,009 4,240,612,009 4,357,88 January 17,396,394 16,803,700 16,223,993 5,260,626,243 5,024,068,904 5,002,9 5,002,9 5,002,9 4,573,3 4,231,55,37,290 5,121,1 April 17,429,278 16,922,768 16,311,880 5,187,082,773 4,315,537,290 5,121,1 April 17,495,584 17,072,058 16,350,363 4,832,480,926 3,743,338,688 5,116,9 June 17,520,574 17,129,120 16,385,263 4,725,126,122 3,400,515,954 4,709,1 August	July		37,928,792	37,804,018	37,408,689			7,143,800,59		
September 17,292,194 16,533,760 16,100,945 4,087,220,552 4,400,612,009 4,357,8 October 17,296,496 16,619,138 16,106,644 4,858,259,078 4,838,758,068 4,568,1 November 17,296,394 16,687,216 16,153,311 4,561,827,959 4,653,584,790 4,691,4 December 17,358,138 16,734,332 16,171,957 4,623,100,481 4,071,199,038 4,240,5 January 17,396,394 16,803,700 16,223,993 5,260,626,243 5,024,068,904 5,002, 6,502,20 4,573,3 March 17,429,278 16,922,768 16,311,880 5,187,082,773 4,315,537,290 5,121,1 April 17,495,584 17,072,058 16,330,363 4,882,480,926 3,743,338,688 5,116,93 June 17,520,574 17,129,120 16,385,263 4,725,126,122 3,400,515,954 4,709,1 July 17,634,948 17,226,118 16,458,116 4,501,269,940 3,326,046,554 4,193,2 Yew England: 18,566,804 <td>Cotton-growing</td> <td>States:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Cotton-growing	States:								
September 17,292,194 16,533,760 16,100,945 4,087,220,552 4,400,612,009 4,357,8 October 17,296,496 16,619,138 16,106,644 4,858,259,078 4,838,758,068 4,568,1 November 17,299,084 16,687,216 16,153,311 4,61,827,959 4,653,584,790 4,691,4 December 17,358,138 16,734,332 16,171,957 4,623,100,481 4,071,199,038 4,240,5 January 17,396,394 16,803,700 16,223,993 5,260,626,243 5,024,068,904 5,002, 5,002, 4,573,33 March 17,429,278 16,922,768 16,311,880 5,187,082,773 4,315,537,290 5,121,1 April 17,495,584 17,072,058 16,330,363 4,832,480,926 3,743,338,688 5,116,9 June 17,520,574 17,129,120 16,385,263 4,725,126,122 3,400,515,954 4,709,1 August 18,563,624 18,923,550 18,938,386 1,871,881,644 2,775,639,087 3,222,9 September 18,566,804	August		17,238,176	16,471,026	16,078,796	3,355,675,020	4.456.159.678	4,398,229,72		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			17,292,194	16,533,760				4,357,887,91		
November 17,299,084 16,687,216 16,153,311 4,561,827,959 4,653,584,790 4,691,4 December 17,355,138 16,734,332 16,171,957 4,623,100,481 4,071,199,038 4,240,5 January 17,396,394 16,803,700 16,223,993 5,260,626,243 5,024,088,904 5,002,9 February 17,421,466 16,846,542 16,274,772 4,786,824,859 4,223,105,203 4,573,3 March 17,421,461 16,922,768 16,311,880 5,187,082,773 4,315,537,290 5,121,1 April 17,461,172 17,019,124 16,326,422 5,129,572,735 4,136,631,416 4,803,2 May 17,520,574 17,129,120 16,385,263 4,725,126,122 3,400,515,954 4,709,1 July 17,634,948 17,226,118 16,458,116 4,501,269,940 3,326,016,554 4,193,2 New England: 18,563,624 18,905,324 18,938,130 1,871,881,644 2,775,639,087 3,222,9 September 18,560,362 18,866,506 18,962,3			17,296,496	16,619,138	16.106.644			4,568,100,11		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					1 ' '			4,691,405,37		
January 17,396,394 16,803,700 16,223,993 5,260,626,243 5,024,068,904 5,002,9 February 17,421,466 16,846,542 16,274,772 4,786,824,859 4,223,105,203 4,573,3 March 17,429,278 16,922,768 16,311,880 5,187,082,773 4,315,537,290 5,121,1 April 17,495,584 17,072,058 16,360,363 4,832,480,926 3,743,338,688 5,116,93 June 17,520,574 17,129,120 16,385,263 4,725,126,122 3,400,515,954 4,709,1 July 17,634,948 17,226,118 16,458,116 4,501,269,940 3,326,046,554 4,193,2 New England: 18,566,804 18,923,550 18,938,386 1,871,881,644 2,775,639,087 3,222,9 September 18,566,804 18,995,324 18,988,130 2,108,483,594 2,780,235,963 3,033,9 October 18,573,908 18,866,506 18,972,380 2,286,553,619 2,991,441,193 3,612,2 December 18,560,374 18,866,506 18,991,						' ' ' '		4,240,503,88		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	January					11 '		5,002,912,28		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						11 ' ' '	, , , , , , , , , , ,	4,573,349,37		
April 17,461,172 17,019,124 16,326,422 5,129,572,735 4,136,631,416 4,803,2 May 17,495,584 17,072,058 16,350,363 4,832,480,926 3,743,338,688 5,116,9 June 17,520,574 17,129,120 16,385,263 4,725,126,122 3,400,515,954 4,709,1 July 17,634,948 17,226,118 16,458,116 4,501,269,940 3,326,046,554 4,193,2 New England: 18,563,624 18,923,550 18,938,386 1,871,881,644 2,775,639,087 3,222,9 September 18,566,804 18,905,324 18,938,130 2,108,483,594 2,780,235,963 3,033,9 October 18,573,908 18,867,680 18,972,380 2,450,286,519 3,181,381,276 3,303,3 December 18,560,372 18,866,506 18,982,756 2,866,553,619 2,771,004,516 3,589,9 January 18,498,704 18,865,068 19,001,661 2,787,257,91 2,668,643,386 3,828,7 February 18,496,942 18,867,680 18,91,228 </td <td></td> <td></td> <td></td> <td>, ,</td> <td></td> <td></td> <td></td> <td>5,121,187,09</td>				, ,				5,121,187,09		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$, ,			4,803,242,36		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	•							5,116,920,30		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-							4,709,189,70		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						1		4,193,263,97		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	lew England:									
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	August		18,563,624	18,923,550	18,938,386	1,871,881,644	2,775,639,087	3,222,966,01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	September .		18,566,804					3,033,918,95		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	October .		18,576,944					3,303,394,33		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	November .		18,573,908					3,612,225,81		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								3,589,956,94		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								3,828,799,36		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						1 ' '		3,452,513,13		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								3,937,092,60		
May								3,560,056,22		
	•							3,751,214,68		
								3,302,423,21		
		i	. ,		, ,			2,676,716,60		

Spindles in Place and Spindle Hours, by States

		Соттом	SPINDLES	IN PLACE	ACTIVE SPINDLE HOURS			
States		1924-25	1923-24	1922-23	1924-25	1923-24	1922-23	
Total		37,928,792	37,804,048	37,408,689	91,054,615,317	84,359,693,047	101,931,101,448	
Cotton-growing		17,634,948	17,226,118	16,458,116	55,912,066,688	50,598,557,682	55,776,192,120	
New England .		18,332,654	18,575,712	18,930,146	31,201,214,868	30,102,266,868	41,271,277,895	
All other		1,961,190	2,002,218	2,020,427	3,941,333,761	3,658,868,497	4,883,631,433	
Alabama		1,432,378	1,392,778	1,330,162	4,310,503,544	3,967,554,144	4,245,104,853	
Connecticut .		1,238,814	1,254,868	1,366,668	2,530,223,753	2,656,603,557	3,393,233,313	
Georgia		2,855,166	2,798,242	2,693,535	8,953,643,722	7,898,098,472	9,318,238,709	
Maine		1,118,236	1,137,704	1,140,928	2,176,234,432	2,164,007,723	2,829,545,069	
Massachusetts		11,597,424	11,792,160	11,951,334	18,666,085,567	17,762,675,018	25,233,380,97	
New Hampshire		1,445,734	1,448,406	1,449,700	2,308,269,862	1,890,176,304	2,451,775,33	
New Jersey ,		513,032	442,424	447,152	1,080,315,700	898,994,671	969,132,89	
New York .		995,878	1,032,450	1,037,418	1,907,877,530	1,842,155,603	2,826,919,82	
North Carolina		5,982,076	5,861,366	5,509,183	19,606,791,926	17,332,650,667	19,062,834,75	
Pennsylvania .		157,780	195,300	203,305	314,272,931	317,883,166	373,541,44	
Rhode Island .		2,787,638	2,797,766	2,876,708	5,254,543,995	5,377,943,296	6,985,333,66	
South Carolina		5,321,264	5,266,378	5,132,364	18,007,339,810	16,605,845,707	17,905,451,58	
Tennessee .		544,424	458,192	438,696	1,365,884,854	1,322,132,639	1,353,979,88	
Texas		239,596	207,248	176,444	649,519,775	527,141,951	557,258,69	
Virginia		711,314	707,314	673,306	1,674,266,691	1,570,753,232	1,739,555,65	
All other States		988,038	1,011,452	981,786	2,248,841,225	2,225,076,897	2,685,814,77	

Spindles in Place in Leading Counties, 1925

Source: United States Bureau of the Census

Соситу	Spindles (Number)	County		Spindles (Number)	County		Spindles Number
Bristol, Mass	7,516,756	Madison, Ala.	Ì	269,696	Durham, N. C.		179,760
Providence, R. I.	1.840,000	Hudson, N. J.		268,904	Rowan, N. C.		172,918
Gaston, N. C	1.116,760	York, S. C.		264.532	Talladega, Ala. ,		-168,082
Middlesex, Mass.	1.108.512	Richmond, N. C.		260,330	Calhoun, Ala.		167,732
Spartanburg, S. C.	940,516	Richland, S. C.		251,348	Tallapoosa, Ala.		164,664
Hillsboro, N. H.	897,868	Greenwood, S. C.		243,492	Kennebec, Me		157,768
(4) (3) (4)	769,252	Albany, N. Y.		229,124	Chester, S. C.		152,120
Hampden, Mass.	732,816	Pickens, S. C.		227,128	Lancaster, S. C.		151,768
Worcester, Mass.	720,380	Cherokee, S. C.		226,788	Halifax, N. C.		147,080
Windham, Conn.	698,960	Bristol, R. I.		226,164	Cumberland, Me.		145,392
Essex, Mass	645,932	Laurens, S. C.		215,200	Floyd, Ga.		133,714
Anderson, S. C.	598,376	Hampshire, Mass.		211.080	Catawba, N. C.		132,856
Kent, R. l	589,602	Fulton, Ga		206,748	Davidson, N. C.		129,796
Berkshire, Mass	548,820	Rutherford, N. C.		204,236	Spaulding, Ga		125,168
31 3 61	489,628	Rockingham, N. C.		200,452	Iredell, N. C.		120,908
T111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	467,440	Aiken, S. C.		198,656	Merrimack, N. H.		112,876
Oneida, N. Y	451.188	Richmond, Ga		189,832	Robeson, N. C.	1	110,936
	448,372	Cleveland, N. C.		187,908	MeDowell, N. C.	1	108,416
	425,720	Alamanee, N. C.		186,744	Lincoln, N. C.		108,032
Cabarrus, N. C.	406,180	Chambers, Ala.		184,360	Caldwell, N. C.		106,552
York, Me	389,356	Troup, Ga		182,884	Newton, Ga		104,512
Union, S. C	339,852	Knox, Tenn.	1	182,196	Vance, N. C.		104.184
Strafford, N. II.	320,376	Newberry, S. C.	1	181,816	Hall, Ga		103,156
Meeklenburg, N. C.	309,814	Stanley, N. C.	1	180,248	Orleans, La.		100,748
Guilford, N. C	308,418			,			2001110

Active Ring and Mule Spindles

		Number	ог Астічі	COTTON S	PINDLES		
199	25	191	19	190)9	189	9
Ring	Mule	Ring	Mule	Ring	Mule	Ring	Mule
32,959,642	2,072,604	31,561,268	3,369,666	23,256,023	4,922,839	13,444,872	5,563,480
1,421,884 853,558	309,262	1,170,658 932,813	$\frac{3,640}{402.578}$	909,587 832,830	3,916 446.586		
2,776,756 57,896	31,120	$\begin{array}{c} 2,451,101 \\ 45,838 \end{array}$	$\frac{48,230}{11,705}$	$\begin{array}{r} 1,703,071 \\ 23,240 \end{array}$	71,896 16,000	730,619 15,488	84,926 16,000
	19 394		16-520				
89,564 $1,105,448$	25,280	$\begin{array}{c} 102,944 \\ 1,064,892 \end{array}$	42,160	63,096 867,364	4,806 161,316	55,600 584,573	256,948
92,252 8,738,766	1,027,510	$\begin{array}{c} 140,940 \\ 9,743,150 \end{array}$	1,633,153	133,302 7,480,902	2,156,699		
$\frac{142,012}{31,336}$	312	$143,874 \\ 31,336$	600	$\substack{159,104\\30,304}$	800 440		
312,804	167,308	204,355	276,012	107,381	313,403	64,638	
5,897,058	12,608	4,736,288	33,840	2,886,453	71,782	1,098,080	35,352
2,147,508	377,334	2,037,036	634,896	1,496,434	875,343	940,294	940,328
458,564	10,000	355,138	13,401	237,530	10,000	103,116	$10,752 \\ 20,780$
225,862 134,608 689,944 146,234	10,200 4,410	140,054 131,024 552,440	$10,200 \\ 7,050$	$\begin{array}{c} 97,628 \\ 75,872 \\ 316,970 \end{array}$	$15,840 \\ 7,572$	$\begin{array}{r} 48,756 \\ 56,712 \\ 124,502 \end{array}$	43,316 2,325
	Ring 32,959,642 1,421,884 853,558 2,776,756 81,980 80,368 89,564 1,105,448 92,252 8,738,766 142,012 31,336 1,228,828 312,804 831,578 5,897,058 123,984 2,147,508 5,290,850 458,628 225,862 134,608	32,959,642 2,072,604 1,421,884	Ring Mule Ring	Ring Mule Ring Mule	Ring	Ring Mule Ring Mule Ring Mule 32,959,642 2,072,604 31,561,268 3,369,666 23,256,023 4,922,839 1,421,884 - 1,170,658 3,640 909,587 3,916 853,558 309,262 932,813 402,578 832,830 446,586 2,776,756 31,120 2,451,101 48,230 1,703,671 71,896 57,896 - 81,256 - 23,240 16,000 80,368 12,394 76,968 16,520 68,124 16,920 89,564 - 102,944 - 63,096 4,806 92,252 - 140,940 - 687,304 161,33 97,238,7 97,43,150 1,633,153 7,480,902 2,156,699 142,012 - 143,874 - 159,104 800 31,336 312 31,336 600 30,304 440 1,228,828 17,140 3,410,947 23,008 <t< td=""><td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td></t<>	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

United States Cotton Spinning Spindles in Place, by States

	YEAR		Massa- ehusetts	Rhode	New Hampshire	Maine	Connecticut	Vermont	New York	New Jersey	Penn- sylvania	Maryland
80			4,236,084	1,764,569	944,053	695,924	936,376	55,081	561,658	232,221	425,391	125,706
06			5,872,852	1,959,294	1,198,643	892,762	939,155	71,591	629,324	374,442	496,551	161,786
00			7,932,883	1,976,198	1,249,875	848,377	1,064,016	100,028	764,492	431,730	336,509	154,061
05			8,388,533	2,055,912	1,332,075	904,490	1,034,915	100,382	878,276	438,372	339,924	154,968
90			8,790,793	2,130,958	1,296,445	912,593	1,174,527	102,264	806,254	417,679	288,143	131,112
20			9,167,698	2,231,461	1,357,877	1,007,717	1,268,065	130,752	1,011,368	440,354	400,395	151,384
SO			9,446,380	2,388,105	1,320,503	978,188	1,240,296	107,324	928,316	447,029	268,310	151,000
60			9,688,637	2,399,440	1,313,581	1,005,258	1,253,582	105,184	942,521	460,888	275,654	152,266
10			9,703,573	2,412,272	1,440,173	1,037,176	1,282,232	105,184	970,445	463,403	297,799	153,010
11			10,613,290	2,526,995	1,462,788	1,066,552	1,270,071	105,276	963,969	483,057	280,202	160,111
12			11,066,846	2,552,743	1,453,778	1,052,674	1,307,907	136.892	925,576	485,176	265,715	158,168
13			11,075,684	2,533,380	1,469,137	1,096,986	1,308,650	136,304	956,595	476,731	249,857	162,288
1.1			11,046,990	2,574,942	1,466,580	1,117,228	1,340,482	136,304	967,578	477,779	252,685	166,240
15			10,914,087	2,567,644	1,468,390	1,104,209	1,335,282	136,304	963,748	481,255	259,965	157,380
16			11,104,810	2,611,553	1,465,013	1,108,790	1,362,186	135,864	913,979	482,831	256,913	151,904
17			11,280,351	2,653,397	1,459,853	1,099,278	1,372,860	135,864	938,158	491,843	256,314	147,764
8			11,512,247	2,683,451	1,462,462	1,096,255	1,376,554	135,864	983,893	487,755	262,896	153,531
19			11,630,397	2,678,180	1,444,074	1,111,940	1,387,517	141,224	980,321	489,647	266,003	145,208
1920			11,758,613	2,675,892	1,443,776	1,127,138	1,392,547	144,808	997,542	417,837	259,715	145,460
21			11,810,563	2,805,538	1,457,428	1,126,452	1,388,949	144,808	1,017,163	424,145	268,878	142,792
22			11,922,573	2,829,202	1,448,660	1,146,440	1,364,656	144,808	1,019,528	433,983	236,263	130,024
23			11,951,334	2,876,708	1,449,700	1,140,928	1,366,668	144,808	1,037,418	447,152	203,305	131,104
24			11,792,160	2,797,766	1,448,403	1,137,704	1,254,868	144,808	1,624,230	442,424	195,300	131,296
55			11,605,232	2,787,638	1,445,734	1,118,236	1,238,814	144,808	828'266	513,032	157,780	1

United States Cotton Spinning Spindles in Place, by States — (Concluded)

	YEAR	AR		-	Alabama	Georgia	Louisiana	Mississippi	North Carolina	South Carolina	Tennessee	Texas	Virginia
0881					49,432	198,656	1	18,568	93,385	82,334	35,736	1	44,340
9					79,234	445,452	46,200	57,004	337,786	332,784	97,524	15,000	94,294
0061					411,328	815,545	55,600	75,122	1,133,432	1,431,349	123,896	48,756	126,827
1905					758,087	1,316,573	59,052	125,352	1,880,950	2,864,092	153,375	68,170	193,062
9					870,154	1,573,450	95,200	165,188	2,396,703	3,367,204	258,794	101,759	253,206
22					904,244	1,682,506	88,724	173,064	2,681,386	3,609,969	253,148	109,892	272,716
<u>s</u>					939,942	1,792,790	89,552	173,216	2,944,404	3,713,006	265,198	106,924	295,578
6(984,534	1,831,742	89,152	176,640	3,010,367	3,819,149	272,856	106,528	315,676
9					968,239	1,833,244	87,070	185,280	3,062,061	3,833,901	272,774	108,778	329,174
11					967,564	1,980,813	86,588	183,662	3,353,706	4,187,317	253,460	113,100	372,816
23					985,968	2,025,238	880,98	191,092	3,403,996	4,327,178	254,278	114,352	414,148
1913					1,000,080	2,103,018	86,095	192,306	3,593,999	4,536,353	271,634	123,908	426,920
+					1,058,685	2,160,571	86,095	190,216	3,813,940	4,632,204	296,620	124,628	477,886
5				-	1,075,859	2,178,573	79,763	184,636	3,915,842	4,710,826	320,052	124,848	513,434
9				-	1,126,846	2,275,929	79,563	166,984	4,053,206	4,743,193	319,148	128,762	516,166
11				-	1,136,786	2,422,810	93,408	167,604	4,375,283	4,851,161	350,352	128,112	528,394
<u>«</u>					1,169,624	2,482,131	96,832	166,932	4,591,026	4,903,840	367,503	132,236	524,194
61					1,292,294	2,518,059	102,944	155,756	4,789,322	4,955,765	373,695	140,024	580,310
9				-	1,215,268	2,542,155	103,128	174,714	4,954,935	4,974,460	399,963	145,054	575,610
12					1,283,096	2,648,325	103,128	176,778	5,228,266	5,013,538	415,593	166,468	488,982
23					1,300,699	2,679,379	101,128	172,612	5,292,880	5,090,088	427,832	168,192	633,870
33					1,330,162	2,693,535	100,748	178,508	5,509,183	5,132,364	438,696	176,444	673,306
7					1,390,278	2,798,242	100,748	182,508	5,858,762	5,263,258	456,992	207.248	707,314
0.55					1.431.868	2,885,166	160.748	185.192	5.982.770	5.321.264	544.424	239,596	711.314

Cotton Mills in Southern States

Source: New Orleans Cotton Exchange

ST	ATES		1919	1920	1921	1922	1923	1924	1925
Virginia .			14	14	14	14	14	14	14
North Carolina			391	414	420	425	437	444	445
South Carolina			196	201	201	202	206	201	205
Georgia			160	160	161	161	164	167	166
Alabama .			74	79	81	83	84	84	85
Mississippi .			17	17	18	18	18	18	18
Tennessee .			25	25	25	25	28	28	29
Kentucky ,			7	7	6	6	5	6	6
Missouri .			2	2	2	2	2	2	2
Arkansas .			2	2	2	2	2	2	3
Louisiana .			5	5	5	5	5	5	5
Texas			16	18	21	22	22	25	30
Oklahoma .			1	1	1	1	2	2	2
Total .			910	945	957	966	989	998	1,010

Looms in Southern Cotton Mills

Source: New Orleans Cotton Exchange

States	1919	1920	1921	1922	1923	1924	1925
Virginia	15,828	16,368	17,895	18,487	19,327	19,320	19,328
North Carolina	69,611	71,114	73,233	74,554	81,366	84,615	85,976
South Carolina	115,491	115,432	115,415	116,949	119,248	123,724	126,476
Georgia	46,696	46,939	47,331	47,966	50,019	50,933	51,846
Alabama	21,288	21,282	21,957	23,320	23,792	25,568	-26,114
Mississippi .	4,118	4,312	4,152	4,190	4,818	4,839	4,776
Tennessee	5,357	5,383	5,990	6,004	6,328	6,274	8,159
Kentucky	1,353	1,353	1,295	1,385	1,376	1,378	1,376
Missouri	730	730	730	730	730	730	580
Arkansas	233	161	133	150	150	_	-
Louisiana	2,100	2,018	2,018	2,018	2,229	2,329	2,329
Texas	3,766	3,928	4,035	4,419	5,745	5,976	6.124
Oklahoma .	64	64	64	64	564	564	468
Total	286,635	289,084	294,248	300,236	315,692	326.250	333,552

World's Cotton Spindles 1

As compiled by leading authorities

	Y	EARS		United States Bureau of the Census	Shepperson's Cotton Facts	Comtelburo's Cotton Handbook	International Federation of Master Cotton Spinners
1900				105,681,000	_	103,115,000	-
1901				_	107,395,000	102,715,145	_
1902				_	_	111,802,010	_
1903				_	_	112,854,077	_
1904				_	_	114,394,712	
1905				116,764,438	_	118,254,146	-
1906				120,090,595	-	123,229,202	_
1907				123,332,971	124,320,000	126,594,000	114,096,168
1908				130,054,408	_	129,346,714	128,923,659
1909				133,377,000	_	136,903,457	131,503,062
1910				134,526,000	-	139,608,000	133,384,794
1911				137,792,000	_	141,625,000	137,278,752
1912				140,996,000	-	143,142,000	140,693,103
1913				143,398,000	143,730,000	147,191,000	143,452,659
1914				146,397,000	144,980,000	148,891,000	144,704,012
1915					148,226,000	150,737,000	, , , , ₋
1916				_	149,785,000	151,667,000	_
1917				148,500,000	151,200,000	154,310,000	_
1918				150,000,000	149,400,000		_
1919				150,000,000	153,505,000	153,799,000	_
1920				154,600,000	151,313,000	156,163,000	154,201,462
1921	Ċ			153,010,000	147,922,000	157,081,000	152,317,054
1922				157,020,000	157,061,000	158,795,000	154,555,267
1923				157,000,000	156,811,000	162,357,000	156,353,000
1924	Ċ			159,109,000	157,536,464	163,948,835	158,047,000
1925		·	·	161,832,000	158,746,784	166,090,536	161,363,000

¹ For those years for which no statistics are given the authorities here quoted either did not compile estimates or their estimates are not available.

The World's Cotton Mills, 1925

Source: Comtelburo's Cotton Handbook

Country		Mills	Spindles	Looms	Consumption, (Bales)	Hands employed
Great Britain	1925	1,917	59,902,954	788,197	3,321,210	630,00
United States, Nort		738	20,496,752	436,586	2,166,448	236,00
United States, Sout		968	17.336,116	326,222	4,380,118	186,00
Canada	1924	50	1,566,022	34,745	212,781	25,75
Germany	1923	372	10,060,000	240,700	1,708,279	375,00
Russia	1924	180	7,245,935	202,011	775,000	216,90
Poland	1925	63	1,394,000	35,000	214,000	56,00
Finland	1925	6	252,600	6,030	30,000	7.10
Esthonia	1925	$\frac{3}{2}$	546,208	5,787	14,522	3,96
Latvia	1923	1	88,436	633	11,022	0,50
France	1925	$57\overline{2}$	9,555,000	181,900	1,053,000	197,54
Hungary	1925	25	93,000	8,250	20,000	7,60
Austria	1925	90	1.094,346	14,091	131,668	19,00
C. Slovakia	1925	87	3,508,000	125,000	329,000	116,00
Jugo-Slavia	1921	6	200,000	4.000	79,366	5,64
Switzerland	1925	64	1,525,856	27.339	80,000	26,50
Italy	1925	500	4,700,000	130,000	700,000	260,00
Spain	1925	300	1,850,000	70,000	360,000	125,00
Portugal	1925	45	500,000	20,000	65,000	30,00
Belgium	$\frac{1925}{1925}$	70	2.120,000	$\frac{20,000}{29,350}$	225,000	19,25
Holiand	1925	100	\$38,000	49,000	76,000	33,00
Sweden	1925	36	565,000	16,500	75,000	13,00
Norway	1925	15	67,900	2,718	10,000	2,80
Denmark	1925	40	79,000	\$,000	20,428	4,45
Turkey	1925	1	5,000	5,000	3,325	1,10
Cyprus	1925	1	1,800	_	550	7
Greece	1923	76	163,000	1,670	30,000	9.14
Egypt	1925	1	40,000	800	8,000	1,00
Asia Minor	1925	$\frac{1}{7}$	55,000	3,325	36,750	3,03
India	1924	336	8,313,273	151,485	1,917,748	356,88
China	1924	119	3,581,214	22,477	1,624,000	195,69
Japan	1924	241	5,110,000	64,460	2,344,000	153,32
Indo-China	1925	5	90,000	500	45,000	3,00
Brazil	1925	244	2,163,440	65,651	447,389	110,11
Argentina	1924	7	30,000	1,500	10,000	2,00
Chile	1916	3	5,000	400	10,000	45
Peru	$\frac{1910}{1925}$	9	76,796	3,049	15,992	3,10
Columbia	1924	16	30,500	1,940	3,000	0,10
Ecuador	1923	11	15,000	200	12,000	10.00
Venezuela	$1923 \\ 1924$	4	26,000	1,000	26,000	5,00
Guatemala	$1924 \\ 1925$	1	5,000	1,000	5,984	5,50
Mexico	$\frac{1923}{1924}$	$17\frac{1}{4}$	794,388	36,939	182,000	44,49
Total (estimate	ed) .	7.516	166,090,536	3,117,605	22,758,558	3,494,30

Japanese Cotton Industry

Source: Japan Cotton Spinners' Association

					CAP	CAPITAL	0	NUMB	NUMBER OF SPINDLES	OLES		
	Years		of Companies	Number of Mills	Authorized (Yen) ¹	Paid-up (Yen) ¹	Funds (Yen) ¹	Ring	Mule	Total	Twisting Spindles	Looms
1905			49	1	40,082,350	33,563,700	9,531,622	1,343,534	83,060	1,426,594	134,840	8,140
1906			47	ı	45,403,350	38,433,350	15,386,948	1,395,013	77,240	1,472,253	136,866	9,601
1907			4	118	90,036,300	57,531,125	20,966,234	1,492,032	48,450	1,540,452	154,789	9,462
1908		•	36	125	85,511,300	58,397,385	22,189,614	1,743,921	51,958	1,795,879	177,860	11,146
1909		٠	33	134	75,871,300	64,501,000	22,784,470	1,903,854	51,038	1,954,892	227,574	13,813
1910.			36	136	94,271,300	67,516,013	24,658,967	2,044,284	55,480	2,099,764	282,186	17,702
1911.			34	139	89,160,150	64,347,164	24,788,872	2,117,756	53,040	2,170,796	286,410	20,431
1912.			41	147	105,136,400	72,366,495	28,538,314	2,125,000	51,748	2,176,748	317,324	21,898
1913.		•	11	152	113,036,401	86,444,059	33,803,119	2,365,094	49,405	2,414,499	320,912	24,224
1914.			45	157	109,676,400	85,820,424	36,639,349	2,606,004	51,170	2,657,174	348,766	25,443
1915.			41	161	110,176,400	86,011,677	38,663,064	2,754,124	53,390	2,807,514	355,318	30,068
1916.			40	161	137,290,150	99,641,818	48,952,381	2,825,944	49,960	2,875,904	370,681	31,295
1917.			43	170	162,830,150	115,623,020	70,037,275	3,008,568	51,910	3,060,478	383,458	36,181
1918.			43	177	192,877,650	138,494,595	92,426,047	3,175,768	51,910	3,227,678	384,872	40,391
1919.		٠	75	190	221,927,650	165,758,695	139,073,869	3,435,932	52,330	3,488,262	410,690	44,401
1920			26	198	394,327,650	276,535,896	165.697,053	3,761,250	52,330	3,813,680	166,460	50,583
1921			61	217	429,577,650	295,648,358	182,040,774	4,116,616	44,510	4,161,126	538,384	54,994
1922			1 9	235	462,107,650	317,148,075	202,774,376	4,472,112	45,500	4,517,612	602,032	60,765
1923.			09	258	463,977,650	323,787,485	211,298,943	4,183,596	14,370	4,197,966	501,031	61,421
1924		٠	26	232	512,362,500	349,820,568	212,871,930	4,845,082	25,150	4,870,232	676,995	64,225
											_	

¹ Yen = \$0.4985 U. S.

Japanese Yarn Production

Sourer: Japan Cotton Spinners' Association

		Average		Pre	ODUCTION OF	Production of Cotton Yarn	z		DAILY O.	Daily Operatives (Average)	AVERAGE)	WAGES (AVER- AGE DAILY)	(AVER-
YE	YEARS	Working Spindles	Coarse Yarn (Bales) ¹	Medium Yarn (Bales) 1	Fine Yarn (Bales) ¹	Doubling (Bales) ¹	Gassed (Bales) ¹	Total (Bales) 1	Males	Females	Total	Mades (Rin) 2	Fe- males (Rin) 2
305		1,329,404	792,439.0	50,104.0	157.0	42,584.0	20,252.5	905,536.5	12,812	58,634	71,446	346	2133
906		1,404,714	826,363.0	55,125.0	148.0	43,376.5	20,155.0	945,167.5	14,496	61,278	75,774	365	855
1907		1,458,020	859,214.5	53,762.0	ı	47,377.5	23,127.5	983,481.5	15,242	64,377	79,619	393	246
806		. 1,367,631	738,659.0	54,171.0	ı	59,555.5	26,185.0	878,570.5	15,049	56,154	74,203	410	250
606		1,569,080	841,778.0	78,975.0	7.0	71,651.0	32,833.5	1,025,244.5	16,844	66,664	83,508	425	267
016		. 1,741,168		63,637.5	1,814.5	74,436.5	30,217.0	1,134,780.5	18,266	75,614	93,880	434	57.5
911		1,784,064	934,713.0	82,739.5	4,627.5	74,536.0	32,651.0	1,129,267.0	17,628	74,868	95,496	450	288
015		. 1,984,191	1,090,172.5	119,893.5	6,722.5	95,683.5	39,737.5	1,352,209.5	18,421	80,779	99,200	167	305
913		2,167,926	1,212,001.5	142,409.0	8,666.5	109,996.0	44,909.0	1,517,982.0	19,707	88,038	107,745	485	320
914		2,369,801	1,350,850.5	149,498.0	7,760.5	119,790.0	38,282.0	1,666,181.0	22,163	92,251	114,414	491	319
915		2,463,376	[1,360,259.0]	187,761.0	8,096.5	130,536.5	33,611.5	1,720,264.5	22,674	92,500	115,174	49.5	555
916		2,757,299	1,458,617.0	259,840.0	10,153.5	155,483.5	41,485.0	1,925,579.0	23,845	97,279	121,124	200	33.1
917		2,850,637	1,421,978.0	287,259.5	7,730.5	164,850.0	42,023.0	1,923,841.5	25,518	97,648	123,166	545	371
816		2,936,495	1,245,723.5	366,868.5	7,427.5	138,286.5	45,560.0	1,803,866.0	26,790	95,069	121,859	989	476
919		3,179,568	1,285,926.0	422,967.5	9,202.0	156,542.5	46,144.5	1,920,782.5	30,935	101,399	131,839	1,116	870
050		. 3,191,753		401,868.5	7,477.5	146,562.5	38,542.0	1,816,976.0	33,966	109,782	143,748	1,567	1,196
921		3,162,353	1,276,600.5	346,148.5	6,199.5	141,136.0	41,265.5	1,811,350.0	34,904	105,704	140,608	1,463	1,134
922		3,967,265	1,557,052.0	429,484.5	7,167.5	185,761.5	48,780.5	2,228,246.0	600,11	132,442	173,451	1,544	1,243
923		. 4,079,855	1,484,705.5	449,274 5	10,175.0	177,472.5	49,525.5	_	38,159	121,811	159,970	1,483	1,180
924		. 4,115,692	1,320,986.5	449,037.5	13,479.0	184,539.0	54.751.0	2,072,817.5	36,015	117,307	153,322	1,524	1,206

¹ Bales of 400 pounds each.

² Rin = 1/1000 yen = \$0.00049.

Japanese Cotton Piece-goods Production

Source: Japan Cotton Spinners' Association

				Average	Production	Yarn	DAILY C	DAILY OPERATIVES (AVERAGE)	(VERAGE)	WAGES (AVERAGE DAILY)	RAGE DAILY
	YEARS	RS		 Working Looms	Picec-goods (Yards)	Consumed (Pounds)	Male	Female	Total	Male (Rin). 1	Female (Rin). 1
. 202				6,420	114,908,132	36,545,146	686	6,847	7,836	384	255
906				8,491	137,773,415	40,702,848	1,248	7,937	9,185	393	259
. 2061				9,245	135,253,029	41,262,958	1,525	8,727	10,252	430	277
. 8061				9,496	147,443,838	47,676,427	1,484	8,683	10,167	448	594
. 6061				11,585	181,976,972	57,388,586	1,871	11,496	13,367	450	304
. 016				11,911	226,313,958	71,197,654	2,486	13,604	16,090	459	305
. 1161				17,884	289,039,671	82,493,136	2,656	17,133	19,789	174	325
1912				20,20s	342,584,684	93,592,721	2,795	18,006	20,801	503	349
1913				23,299	416,725,357	111,159,616	3,298	21,956	25,254	530	363
. 1-161				24,911	454,901,674	123,863,966	3,569	22,459	26,028	555	379
. 5161				27,687	502,076,621	124,632,631	3,547	22,930	26,477	526	374
. 9161				30,110	560,181,108	136,413,408	3,737	23,245	26,982	534	407
. 7				 31,920	591,649,419	142,770,758	4,333	24,434	28,767	583	445
. 8161				36,395	656,935,420	160,301,569	5,532	29,713	35,245	721	531
G.				40,969	739,390,012	179,788,560	7,635	37,040	44,675	1,133	888
. 076				44,635	762,037,360	189,651,320	8,005	39,048	47,053	1,572	1,174
1261				44,109	700,697,985	179,427,501	7,078	32,182	39,260	1,492	1,146
1922				51,033	869,327,652	214,327,505	7,857	38,102	45,959	1,544	1,243
1923				52,972	068,802,000,1	240,279,975	7,962	40,549	48,511	1,483	1,180
1924				 56.351	1,030,905,658	241,319,095	8.179	43 056	51,235	1,525	1,174

¹ Rin = 1/1000 yen = \$0,00019.

Indian Yarn Production

[In pounds]

Source: Department of Statistics, India

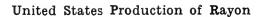
FISCAL YEARS ENDING MARCH 31	Counts 1-12	Counts over 12	Counts over 15	Counts 20 and over	Counts over 22	Counts over 32	Total all Counts
1910-11	207.509.950	402,022,486	357,404,069	286,800,386	93,044,789	14,164,373	609,532,436
1911-12	190,645,627	433,677,328	386,253,430	312,258,578	103,612,447	16,535,131	624,322,955
1912-13	239,721,030	448,039,765	396,350,672	319,491,171	111,653,111	16,901,358	687,760,795
1913-14	233,643,390	448,490,863	399,266,359	320,992,248	109,631,349	14,019,139	682,134,253
1914-15	220,194,466	431,314,975	377,146,978	300,656,706	102,540,454	12,769,510	651,509,441
1915-16	260,337,274	461,435,823	404,474,369	319,591,815	106,240,756	12,305,584	721,773,097
1916-17	219,750,231	461,010,063	403,761,898	318,157,008	118,128,025	17,808,941	680,760,294
1917–18	193,374,553	466,977,783	403,005,598	324,052,191	131,274,554	19,096,551	660,352,336
1918–19	. 161,285,869	453,523,437	391,177,022	314,908,993	130,658,399	14,034,609	614,809,306
1919–20	174,732,119	460,752,829	405,203,195	323,181,427	117,211,723	12,972,539	635,484,948
1920-21	. 175,376,300	484,271,405	420,948,022	336,252,620	123,042,860	8,890,653	659,647,705
1921-22	197,376,737	495,593,803	427,303,790	344,573,122	133,937,430	9,493,469	692,970,540
1922–23	191,167,444	514,467,085	444,036,923	360,416,448	132,757,809	9,090,148	705,634,529
1923-24	143,895,315	464,218,704	393,023,812	315,354,051	128,114,271	12,512,473	608,114,019
1924-25	165,030,312	554,359,682	476,154,435	249,579,743	154,756,501	16,088,692	719,389,994

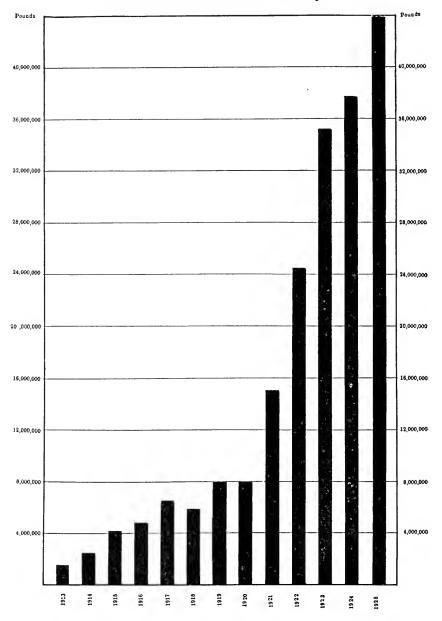
World Rayon Production by Countries

Source: United States Department of Commerce

	1922 (Pounds)	1923 (Pounds)	1924 (Pounds)	1925 ¹ (Pounds)
United States	23,500,000	35,400,000	39,000,000	54,700,000
Italy	6,292,000	10,000,000	18,480,000	30,000,000
England	15,340,000	16,500,000	23,947,000	28,000,000
Germany	12,584,000	13,000,000	23,672,000	27,100,000
France	6,292,000	7,700,000	12,333,200	14,400,000
Belgium	6,292,000	6,000,000	8,874,800	11,100,000
Switzerland	1,887,600	3,700,000	4,004,000	5,500,000
Holland	2,516,800	2,600,000	3,336,000	4,400,000
Austria	1,573,000	_	2,640,000	3,500,000
Poland	943,800	-	1,540,000	2,200,000
Czecho-Slovakia .	629,200	-	1,293,600	2,000,000
Japan	. -	_	1,199,000	1,400,000
Hungary	1,887,600	_	616,000	700,000
Spain	. _	-	184,800	220,000
Sweden	. _	_	176,000	176,000
Russia	. _	_	88,000	88,000
Other countries	. -	2,100,000	_	_
Total	79,738,000	97,000,000	141,414,000	185,484,000

¹ Estimated.





United States Production and Imports of Rayon

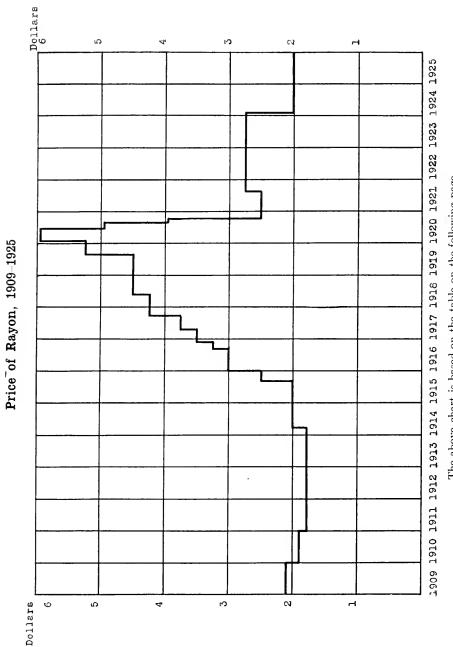
Source: Silk Association of America and Department of Commerce

		Y	EAR			Production (Pounds)	Imports (Pounds)	Import Valuation (Per Pound)
1913						1,566,000	2,305,000	_
1914					.	2,445,000	2,923,000	\$1.25
1915						4,111,000	2,718,000	1.21
1916					.	4,744,000	864,000	1.95
1917					.	6,687,000	552,000	2.55
1918					.	5,828,000	93,099	2.69
1919						8,000,000	1,148,513	4.06
1920					.	8,000,000	1,846,875	3.44
1921						15,000,000	3,667,180	1.66
1922					. 1	24,406,400	2,087,775	1.87
1923						35,380,500	3,906,037	1.73
1924						37,719,600	1,711,987	1.34
1925						48,260,000	7,000,521	1.16

Use of Rayon by Industries

Source: The Viscose Company

				1925 (Per Cent)	1924 (Per Cent)	1923 (Per Cent)
Cotton				26	15	11
Hosiery				28	23	22
Silk goods				16	18	15
Knitted outerwear			.	5	14	25
Braid				4	8	10
Tapestry			.	4	3	_
Upholstery goods			.		_	2
Underwear			.	13	11	5
Lace			.	. 1	11	5
Webbing				1	_	_
Plush				1	2	2
Woolen goods .				1	1	1
Miscellaneous .				_	5	7



The above chart is based on the table on the following page.

List Prices of Rayon Yarn

[Quotations are for 150 denier, A quality, unbleached]

Source: The Viscose Company

1909												\$2.13
1910												1.90
1911												1.80
1912												1.80
1913												1.80
April	1, 19	14, te	o Se	pten	ıber,	191	5.					2.00
Septer	mber	, 191	5, tc	Jar	nuary	, 19	16					2.50
Janua	ry, 1	916,	to S	epte	mber	, 19	16					3.00
Septer	mber	, 191	6, tc	De	cemb	er,	1916					$^{3.2}$
Decen	nber,	1916	, to	Ma	y, 19	17						3.50
May,	1917	, to (Deto	ber,	1917							3.7
Octob	er, 19	917, 1	to J	une,	1918							4.2
June,	1918	, to S	Sept	emb	er, 19	919						4.5
Septer	$_{ m mber}$, 191	9, to	Fel	oruar	y, 1	920					5.2
Febru	ary,	1920.	, to	June	, 192	20						5.9
June,	1920	to S	epte	mbe	r, 19	20^{-}						4.9
Septer	mber	, 192	0, te	Oet	tober	, 19	20					3.9
Octob	er, 1	920, 1	to S	epte	$_{ m mber}$, 19	21					$^{2.5}$
Septer	mber	, 192	1, to	Fel	oruar	y, 1	924					$^{2.7}$
Febru	arv	1994	to									2.00

Statistical History of the American Cotton Industry

Looms		Active S (Thous	Employees	Value of Products	Number of Estab-			YEAR		
	United States	Northern States		(Thousands)	lishments					
	- 1	_	-	_	_					790
	-	-	- 1	_	_					800
	-		-	_	_					810
	-	-	-	_	_					820
	-	- 1		_	_					830
	2,285	2,104	72,119	\$46,350	1,240					840
	3,998	3,733	92,286	61,869	1,094					850
126,31	5,236	4,912	122,028	115,682	1,091					860
157,31	7,132	6,804	135,369	177,490	956					870
·	-	-	-	_	-					871
	-	-	-	_	_					872
	-	-	- 1		_					
	-	-	-	_	_					874
		-	_	_	_					875
	-	-		_	_					876
	-	-	_	_	_					877
	-	-	-	_	_					878
	-	-	174,659	192,090	756					879
225,75	10,653	10,092	_	_	_					880
	-	-	_	_	_					881
	-	-	_ '	_	_					882
	12,660	11,800	-	_	-					883
	13,300	$12,\!250$	_	_	-					884
	13,375	12,250		_	-					885
	13,400	12,250	~	_	-					886
	13,500	12,300	_	_	-					887
	13,550	12,300	_	_	-					888
	14,060	12,700	218,876	267,982	905					889
324,86	14,384	12,814	_	_	_					890
	14,640	12,900	_	_	-					891
	15,200	13,250	_	_	_					892
	15,550	13,450	_	_	_					893
	15,700	13,500	_	_						894
	16,100	13,700	_	_	_					895
	16,650	13,800	_	_	_					896
	17,150	13,900	_	_	_			•		897
	17,450	13,900	_	_	_				Ċ	898
	18,100	14,150	302,861	339,200	1,055	•	-	•	•	899

Statistical History of the American Cotton Industry

Y	EAR		Crop (Bales)	Consumi Mills (Thou:	(Bales)	Acreage Picked	Yield per Acre	Upland, Average	Standard Sheeting, Average
	·		(Thousands)	Northern States	United States	(Thousands)	(Pounds)	Price	Price
1790			3	_	_	_	_	26.0	_
1800			73	-	. –	_	- 1	44.0	-
1810			178	_	-	_	-	15.5	-
1820			335	_	-	-	_	14.3	_
1830			732	- '	_	_	-	9.7	-
1840			1,348	166	237	_	_	9.5	-
1850			2,136	497	575	_	_	12.1	7.87
1860			3,841	751	845	-	_	13.0	8.75
1870			4,025	728	797	8,885	199	17.0	14.58
1871			2,553	1,072	1,163	7,558	148	16.2	13.00
1872			3,920	977	1,097	8,483	189	21.4	14.27
1873			3,683	1,063	1,201	9,510	180	19.1	13.31
1874			3,941	1,192	1,320	11,764	148	16.2	11.42
1875			5,123	1,071	1,201	11,934	191	15.0	10.41
1876			4,438	1,220	1,354	11,677	168	12.1	8.85
1877			4,370	1,302	1,429	12,133	164	11.3	8.46
1878			5,244	1,345	1,496	12,344	191	10.8	7.80
1879			5,755	1,379	1,561	14,480	181	10.4	7.97
1880			6,343	1,382	1,570	15,951	185	11.8	8.51
1881			5,456	1,713	1,938	16,711	150	10.8	8.51
1882			6,957	1,677	1,964	16,277	186	11.8	8.45
1883			5,701	1,759	2,072	16,778	165	10.1	8.32
1884			5,682	1,537	1,877	17,440	154	11.0	7.28
1885			6,575	1,437	1,753	18,301	164	10.7	6.75
1886			6,446	1,781	2,162	18,455	170	9.4	6.75
1887			7,020	1,687	2,088	18,641	183	10.0	7.15
1888			6,941	1,805	2,261	19,059	180	10.3	7.25
1889			7,473	1,790	2,270	20,175	160	10.4	7.00
1890			8,674	1,979	2,518	19,512	187	11.3	7.00
1891			9,018	2,027	2,640	19,059	179	9.9	6.83
1892			6,664	2,172	2,856	15,911	209	7.8	6.50
1893			7,493	1,652	2,375	19,525	150	8.4	5.90
1894			9,476	1,580	2,291	23,688	195	7.7	5.11
1895			7,161	2,019	2,871	20,185	156	6.2	5.74
1896			8,533	1,605	2,505	23,273	185	8.1	5.45
1897			10,898	1,793	2,792	24,320	183	7.7	4.73
1898			11,189	2,211	3,465	24,967	221	6.3	4.20
1899		Ċ	9,345	2,217	3,632	24,327	184	6.1	5.28

Statistical History of the American Cotton Industry — (Concluded)

	YEAR		Number cf Estab-	Value of Products	Employees	ACTIVE S (Thous		Looms
			lishments	(Thousands)		Northern States	United States	
						17.104	10.470	155 750
900 .			_	_	_	15,104	19,472	455,752
901 .			_	_	_	14,700	20,200	_
902 .				-	_	15,000	21,400	
903 .				-	-	15,100	22,000	
904			1,154	450,468	315,874	15,200	22,850	540,910
905 .			_	_	_	16,056	23,687	
906			-	_	_	16,255	25,250	-
907		٠	1 _	_	_	16,847	26,375	_
908			_		_	17,304	27,505	-
909			1,324	628,392	378,880	17,589	28,018	632,963
910			_	-	_	17,773	28,267	_
911			-	_	_	18,438	29,523	_
912			_	_	_	18,996	30,579	_
913			-	_	_	19,293	31,520	_
914			1,328	701,301	393,404	19,396	32,107	672,754
915		,	_	_	_	19,008	31,964	-
916			_	_	-	19,424	32,806	-
917			_	_	_	19,733	33,889	-
918				i –	_	20,014	34,543	_
919			1,496	2,195,566	446,852	20,085	34,931	692,169
920			_		_	20,250	35,481	-
921			1,527	1,330,263	425,817	20,338	36,047	_
922			_		_	19,802	35,708	_
1923			1,643	2,010,141	497,378	19,950	36,260	_
924				-	_	18,905	35,849	_
1925			_	_	_	17,740	35,032	_

The figures in this table are not all precisely comparable throughout the entire period shown but are presented to show in a general way the changes which have taken place in the industry. The data are from various sources, largely official.

λ	EAR	Crop (Bales) (Thousands)	Consume Mills ((Thous	Bales)	Acreage Picked (Thousands)	Yield per Acre	Upland, Average Price	Standard Sheeting Average	
		 (1 nousands)	Northern States	United States	(Thousands)	(Pounds)	Price	Price	
1900		10,123	2,350	3,873	24,933	194	9.1	6.05	
1901		9,676	1,964	3,547	26,774	170	8.1	5.54	
1902		10,827	2,066	4,083	$27,\!175$	187	8.2	5.48	
1903		10,046	1,966	3,924	27,052	174	12.2	6.25	
1904		13,680	2,046	3,935	31,215	206	8.7	7.13	
1905		10,805	2,139	4,279	27,110	187	10.9	7.00	
1906		13,595	2,536	4,909	31,374	203	10.0	7.25	
1907		11,375	2,574	4,985	29,660	179	11.5	7.62	
1908		13,587	2,352	4,539	32,444	195	9.2	6.75	
1909		10,315	2,687	5,241	30,938	154	14.3	7.37	
1910		12,006	2,507	4,799	32,403	171	14.0	7.87	
1911		16,250	2,377	4,705	36,045	208	9.6	7.98	
1912		14,313	2,656	5,368	34,283	191	11.5	7.79	
1913		14,795	2,825	5,786	37,089	182	12.5	8.05	
1914		16,992	2,861	5,885	36,832	209	7.3	7.68	
1915		12,123	2,816	6,009	31,412	170	11.2	6.74	
1916		12,781	3,301	7,278	34,985	157	17.3	9.18	
1917		12,428	3,323	7,658	33,841	160	27.1	14.50	
1918		12,970	3,271	7,685	36,008	160	28.8	23.38	
1919		12,029	2,733	6,224	33,566	162	35.4	22.60	
1920		13,880	3,048	6,762	35,878	178	15.8	23.08	
1921		8,351	2,257	5,409	30,509	125	16.9	_	
1922		10,370	2,571	6,549	33,036	141	22.9	13.63	
1923		10,808	2,823	7,312	37,123	131	28.7	_	
1924		14,497	2,167	6,217	41,360	157	22.9	_	
1925		_	2,392	6,852	45,945	166	_	_	

Legal Working Hours for Women

Source: United States Department of Labor

			S	TATE						Daily	Weekly
Vlabama										No limitation	No limitatio
Arizona .	•	•	•	•	•	•		•	•	8	56
Arkansas	•	•			•	•	•	•	•	9	54
California		•			•			•	٠	8	
										$\stackrel{\circ}{8}$. 48
Colorado	•	٠	*								56
Connecticut	•		•					•		10	55
Delaware	٠.	: .								10	55
District of C	olun	ma								. 8	48
lorida .										No limitation	No limitatio
leorgia .										10	60
daho .										9	63
llinois .										10	70
ndiana .										No limitation	No limitatio
owa .	•	•	•				•	•		No limitation	No limitation
čansas .		•	•		•	•	•	•	•	9	49½
Kentucky	•							•	•	10	
		•			•			٠	•		60
ouisiana	•				٠				•	10	60
Iaine .										9	54
Iaryland										10	60
Iassachuset	$^{\mathrm{ts}}$									9	48
Iichigan										9	54
Iinnesota										$9\frac{1}{2}$	54
Iississippi										10	55
Iissouri	•	•	•	•	•				•	9	54
Iontana	•	•			•					s š	56
Jebraska	•		•	•	•			•		9	54
	•	•								8	
levada .	٠.		•						•		56
Jew Ḥampsl	nire	•							•	$10\frac{1}{4}$	54
lew Jersey										10	54
Yew Mexico										8	56
Yew York										9	54
Iorth Caroli	na									11	60
Jorth Dakot	la.									81/2	48
hio .									Ċ	92	$\overline{50}$
klahoma	•	•	•	•	•	•	•	•	•	, š	54
regon .	•		•			•	•	•	•	9	48
		•	٠					•	•	10	54
ennsylvania		•	•					٠	•		
thode Island						•		٠		10	54
outh Caroli										10	55
outh Dakot	a									10	54
'ennessee										$10\frac{1}{2}$	57
'exas .										9	54
Jtah .										8	48
ermont						•				101	56
'irginia	•	•	•	•	•		•	•	•	102	60
		•	•						٠	8	56
Vashington		٠	٠	•	•	•	•				
Vest Virgini	\mathbf{a}	•	•					•		No limitation	No limitatio
Visconsin			٠							9.	50
Vyoming										$8\frac{1}{2}$	56

Note. — The above table applies to women employed in mechanical and manufacturing establishments. Many states provide for overtime in seasonal industries.

Approximate Value of Foreign Money

Source: The Merchants National Bank of Boston

Country	Monetary Uni	t and	l Fractions	Approximate Value of United States Dollar in Foreign Unit at Par	
	1 Gold peso	=	100 Centavos	\$0.9648	1.0362 Gold pesos
Argentina 1	1 Paper peso	=	100 Centavos	.4245	2.3557 Paper pesos
Austria	1 Krone	=	100 Hellers	.2026	4.9351 Kronen
Belgium	1 Franc	==	100 Centimes	. 1930	5.1813 Francs
Bolivia	1 Boliviano	=	100 Centavos	.3893	2.5686 Bolivianos
	1 Gold milreis		,000 Reis	.5462	1.8308 Gold milreis
Brazil ²	1 Paper milreis		,000 Reis	.3244	3.0823 Paper milreis
Bulgaria	1 Lev	= ^	100 Stotinki	. 1930	5.1813 Leva
Thile 3	1 Peso	=	100 Centavos	. 3650	2.7397 Pesos
China 4		_	_	-	
olombia	1 Peso	=	100 Centavos	, 9733	1.0274 Pesos
zecho-Slovakia .	1 Krone	=	100 Hellers	.2026	4.9351 Kronen
Denmark	1 Krone	=	100 Ore	.2680	3.7313 Kroner
Eeuador	1 Sucre	=	100 Centavos	.4867	2.0548 Sucres
Egypt	1 Egyptian pound	=	100 Piastres	4 9431	.2023 Egyptian pound
inland	1 Markka	=	100 Pennia	. 1930	5.1813 Markka
France	1 Franc	=	100 Centimes	. 1930	5. 1813 Francs
Germany	1 Mark	=	100 Pfennige	.2382	4.1979 Marks
Treeee	1 Drachma	=	100 Lepta	.1930	5.1813 Draehmas
	1 Pound sterling	=	20 Shillings	4.8666	0-4-11 Pounds sterling
Great Britain .	1 Shilling	=	12 Pence	.2433	4.1101 Shillings
folland	1 Guilder or florin	=	100 Cents	.4020	2,4878 Guilders
londuras	1 Peso	=	100 Centavos	.4340	2.3041 Pesos
Hungary	1 Krone	=	100 Fillers	.2026	4.9351 Kronen
	1 Rupee	=	16 Annas	.4867	2.0530 Rupees
ndia	1 Anna	=	12 Pies		- room atapata
taly	1 Lira	=	100 Centesimi	. 1930	5.1813 Lire
lapan	1 Yen	==	100 Sen	.4985	2.0062 Yen
	[1 Dinar	=	100 Paras	. 1930	5.1813 Dinars
lugo-Slavia .	4 Kronen	=	1 Dinar		0,1010 2,11111
	1 Krone	=	100 Hellers		
Mexico	1 Peso	=	100 Centavos	.4985	2.0062 Pesos
Vorway	1 Krone	=	100 Ore	.2680	3.7313 Kroner
Paraguay 5	1 Peso	=	100 Centavos	.9980	1.002 Pesos
Persia	1 Kran	=	20 Shahis	.0733	13,6425 Krans
D	1 Peruvian pound	=	10 Soles	4.8666	.2053 Peruvian poun
eru,	1 Sol	=	100 Centavos	4867	2,0533 Soles
Philippines	1 Peso	=	100 Centavos	. 5000	2.000 Pesos
Poland	1 Polish mark	=	100 Fenigow	.2382	4.1979 Polish marks
Portugal	1 Escudo	=	100 Centavos	1 0805	,9254 Eseudos
Rumania	1 Leu	=	100 Bani	. 1930	5, 1813 Lei
₹ussia	1 Rouble	=	100 Kopeks	. 5146	1.9434 Roubles
Serbia	1 Dinar	==	100 Paras	. 1930	5.1813 Dinars
Spain	1 Peseta	=	100 Centimos	.1930	5.1813 Pesetas
Sweden	1 Krona	=	100 Ore	.2680	3.7313 Kronor
Switzerland .	1 Franc	=	100 Centimes	. 1930	5.1813 Franes
Turkey	1 Piastre	=	40 Paras	.0439	22,7272 Piastres
ruguay	1 Peso	=	100 Centesimos	1.0342	.9671 Pesos
'enezuela	1 Bolivar	=	100 Centimos	. 1930	5.1813 Bolivares

Note. - Foreign money values are all subject to fluctuations.

Paper is convertible into gold and vice versa at the fixed rate of 44 gold pesos to 100 paper pesos.
 Gold currency is theoretical; the actual currency is the paper milreis, which by law is supposed to equal 16 English pence, but which, being inconvertible, fluctuates in value.
 Actual circulation is the paper peso, which by law is supposed to equal 18 English pence, but which, being inconvertible, fluctuates in value.
 There is no uniform currency in China, the Mexican silver dollar being mostly used. The British dollar, termed Hongkong currency, has the same legal value as the Mexican dollar in Hongkong and the Straits settlements, and usually prevails at about 50 cents United States gold.
 Nominally the monetary system is based on gold pesos of the above value. Actual circulation, however, is practically confined to paper notes, which, being irredeemable, have depreciated to the approximate value of 4 cents United States currency.





TECHNICAL

FOREWORD

The Technical Section of the Year Book does not contain any radical changes from the previous editions, but has been added to in accordance with suggestions made by the Technical Committee. Many more tables and charts of engineering nature could be added that would be of value to the industry, but as these are available from other sources it is thought best to use only those that would find most frequent use.

The material has been presented as far as possible in a logical order, but it must be realized that as these are a collection of selected charts and tables covering, in a concise manner, many questions of a technical nature, there can be no real sequence.

A work of this sort is never complete, and it is the intention of the Committee to make such changes as seem desirable to keep the scope of the section so that it will be of value to the cotton manufacturer.

E. D. WALEN, Chairman, Technical Committee.

INTRODUCTION

The Technical Section of the Year Book is a collection of many of the standard reference tables and information of use to the cotton manufacturer.

The reference data include weight equivalents, conversion tables, power transmission data, roving, yarn and cloth tables, humidity charts and tables, knitting information, textile test methods and sales notes. The new material added this year includes a conversion table for converting from Fahrenheit to Centigrade, and for converting from cotton yarn numbers to denier, and extracts from the thrown silk rules approved by the Silk Association of America.

Acknowledgment has been made in most cases where the data are used. In addition we are indebted to Prof. George B. Haven, Gilbert R. Merrill, The Cotton Research Company, Textile World, Saco-Lowell Shops, Whitin Machine Works, Draper Corporation, H. & B. American Machine Company, U. S. Testing Company, The Silk Association of America, and the American Society for Testing Materials for their courtesy in giving permission to republish certain of their tables.

Common Abbreviations Approved by American Society for Testing Materials

1-1					
		s of $L\epsilon$			Minute min.
Centimeter Decimeter .				em.	Month spell out
Decimeter .				dm.	Second sec.
Foot				ft.	Week spell out
Inch				in.	Week spell out Year spell out
Inch Kilometer .				km.	
Linear	•			lin.	(f) Electrical and Magnetic Terms
Linear . Meter	•			spell out	Ampere spell out Electric horse power e. h. p. Electromotive force e. m. f.
Mile.				spell out	Electric horse power e. h. p.
Mile Millimeter .	•			spen out	Electromotive force e. m. f.
					Magnetomotive force m. m. f.
Yard				ya.	Ohm spell out
(b)	Uni	ts of A	rea		Ohm spell out Volt spell out
Circular mil				cir. mil.	(g) Units of Power
Square .				sq.	Brake horse power b. h. p.
Square foot				sq. ft.	Horse power lt. p.
Square . Square foot Square inch				sq. in.	Indicated horse power i. h. p.
					Kilowatt kw.
		s of Vo			Watt spell out
Barrel . Bushel .				bbl.	
					(h) Units of Heat
Centiliter .				cl.	British Thermal Unit B. t. u.
Cubic				eu.	Calorie cal.
Cubic Cubic centime	ter			ee.	Centigrade C.
Decaliter .				dal.	Fahrenheit F.
Deciliter .				dl.	Degree °
Gallon . Hectoliter .				gal.	(i) Miscellancous Technical Terms
				hl.	
Liter				spell out	Birmingham wire gage B. w. g. Brown & Sharpe (gage) B. & S.
Milliter .				ml.	Brown & Sharpe (gage) B. & S.
Pint				pt.	Chemically pure c. p. Degree (angular measure) . deg. Diameter spell out
				gt.	Degree (angular measure) . deg.
				1	Diameter spell out
		s of W			Parts per million p. p. m. Revolutions per minute r. p. m.
Centigram				eg.	Revolutions per minute r. p. m.
Decigram .				dg.	Specific gravity sp. gr. Tensile strength tens. str.
Grain Gram				gr.	Tensile strength tens. str.
Gram				g.	United States (gage) U. S.
Kilogram . Milligram .				kg.	(j) Miscellaneous General Terms
Milligram .				mg.	
Ounce .				oz.	Figure Fig. Number No.
Ounce . Pound .				lb.	
Ton					Per spell out
				· pen out	Per centum per cent Proceedings spell out
		ts of T			Proceedings spell out
Afternoon . Day				P.M.	Plate spell out
					Table spell out
Forenoon .				A.M.	Transactions spell out
Hour				hr.	Volume Vol.

Metric Conversion Table

Millimeters \times .03937 = inches. Liters \times 61.022 = cubic inches.

 $\text{Millimeters} \div 25.4 = \text{inches}.$ Liters $\times .2642 = \text{gallons} (231 \text{ cubic inches})$

Centimeters \times 3.937 = inches. Liters \div 28.316 = cubic feet. Centimeters \div 2.54 = inches. Hectoliters \times .131 = cubic yards.

Centimeters \div 2.54 = inches. Hectoiters \times 1.51 = cubic yar Meters \times 39.37 = inches. Grams \times 15.432 = grains.

Meters $\times 3.281$ = feet. Grams $\div 981$. = dynes.

Kilometers \times .621 = miles. Grams \div 28.35 = ounces avoirdupois.

Square Centimeters $\times .155 = \text{square}$ Kilo-grams $\times 2.2046 = \text{pounds}$.

inches. Kilo-grams \div 907.2 = tons (2,000 pounds)

Square Meters $\times 10.764$ = square feet. Kilo-Watts $\times 1.34$ = horse power.

Hectare $\times 2.471$ = acres. Watts $\div 746$. = horse power.

Cubic Centimeters ÷ 16.383 = cubic inches. Calorie × 3.968 = British Thermal Unit. Cubic Meters × 35.315 = cubic feet. Calorie × 3.968 = British Thermal Unit. Gravity Paris = 980.94 centimeters per

Cubic Meters $\times 1.308$ = cubic yards. see on

Reference Data

1 Pint of water weighs 1.045 pounds.

1 Gallon of water = .1339 cubic feet = 8.36 pounds of water at 62° F.

1 Mile = 5,280 feet.

1 Pound (avoirdupois) = 7,000 grains = 453.6 grams.

1 Horse Power = 33,000 foot pounds of work done per minute = 746 watts.

The pressure of one atmosphere =14.7 pounds per square inch, =2,116 pounds per square foot = a column of mercury 760 millimeters high.

A column of water 2.3 feet high corresponds to a pressure of 1 pound per square inch.

Area of triangle = base \times half the perpendicular height.

Area of circle = diameter squared $\times 0.7854$.

Circumference of circle = diameter $\times 3.14159$.

Diameter of circle \times .8862 = the side of an equal square.

Side of a square $\times 1.12837$ = the diameter of equal circle.

Square root of an area $\times 1.12837$ = the diameter of equal circle.

Surface of cylinder = area of both ends + length \times circumference.

Surface of eone = area of base $+\frac{1}{2}$ (slant height × eigenmeterence of base).

Surface of sphere = diameter squared $\times 3.14159$.

Solidity of sphere = diameter cubed \times .5236.

Solidity of cylinder = area of one end \times length.

Weight Equivalents

Corrected to second decimal place

1 ounce = 437.5 grains = 28.35 grams
$1\frac{1}{2}$ ounces = 656.25 grains = 42.52 grams
2 ounces = 875.0 grains = 56.70 grams
$2\frac{1}{2}$ ounces = 1093.75 grains = 70.87 grams
3 ounces = 1312.5 grains = 85.05 grams
$3\frac{1}{2}$ ounces = 1531.25 grains = 99.22 grams
4 ounces = 1750.0 grains = 113.40 grams
$4\frac{1}{2}$ ounces = 1968.75 grains = 127.57 grams
5 ounces = 2187.5 grains = 141.75 grams
$5\frac{1}{2}$ ounces = 2406.25 grains = 155.92 grams
6 ounces = 2625.0 grains = 170.10 grams
$6\frac{1}{2}$ ounces = 2843.75 grains = 184.27 grams
7 ounces = 3062.5 grains = 198.44 grams
$7\frac{1}{2}$ ounces = 3281.25 grains = 212.62 grams
8 ounces = 3500.0 grains = 226.79 grams
$8\frac{1}{2}$ ounces = 3718.75 grains = 240.97 grams

9 ounces = 3937.5 grains = 255.14 grams $9\frac{1}{2}$ ounces = 4156.25 grains = 269.32 grams 10 ounces = 4375.0 grains = 283.50 grams $10\frac{1}{2}$ ounces = 4593.75 grains = 297.67 grams 11 ounces = 4812.5 grains = 311.84 grams $11\frac{1}{2}$ ounces = 5031.25 grains = 326.02 grams 12 ounces = 5250.0 grains = 340.19 grams $12\frac{1}{2}$ ounces = 5468.75 grains = 354.37 grams 13 ounces = 5687.5 grains = 368.54 grams $13\frac{1}{2}$ ounces = 5906.25 grains = 382.71 grams 14 ounces = 6125.0 grains = 396.89 grams $14\frac{1}{2}$ ounces = 6343.75 grains = 411.06 grams 15 ounces = 6781.25 grains = 439.41 grams 15 $\frac{1}{2}$ ounces = 6781.25 grains = 439.41 grams 16 ounces = 7000.0 grains = 453.59 grams

Circumferences of Circles, advancing by Eighths

			ENCES	Circumfer:	(DIAMETER
7/8	34	5/8	1/2	3/8	34	1/8	0	(Inches)
2.74	2.356	1.963	1.570	1.178	0.7854	0.3927	_	0
5.890	5.497	5.105	4.712	4.319	3.927	3.531	3.1416	1
9.03	8.639	8.246	7.854	7.461	7.068	6.675	6.283	2
12.17	11.78	11.38	10.99	10.60	10.21	9.817	9.424	3
15.31	14.92	14.52	14.13	13.74	13.35	12.95	12.56	4
18.45	18.06	17.67	17.27	16.88	16.49	16.10	15.70	5
21.59	21.20	20.81	20.42	20.02	19.63	19.24	18.84	6
	18.06	17.67	17.27	16.88	16.49	16.10	15.70	5

Circum. of a circle — dia. \times 3.1416.

Conversion of Thermometer Readings

	Lo Co	F°	Co
	500 260.00	900	482.22
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	505 262.78	910	487-78
-36 - 37.78 - 32 - 0.00 - 82 - 27.78 - 260 - 126 - 67 - 5	$510 \mid 265 \mid 56 \mid$	920	-493.33
	515 268.33	930:	-498.89
=32 - 35 56 34 1.11 84 28.89 270 132.22 5	520 271.11	940	-504.44
$-30 - 34 \ 44 \ 35 \ 1 \ 67 \ 85 \ 29.44 \ 275 \ 135.00 \ 5$	525 273.89	950	510.00
	530 276.67	960	515.56
	$\frac{1}{35}$ $\frac{1}{279.44}$	970	521.11
	540 282.22	980	526.67
20 20 00 20 89 21 67 295 146 11 5	545 285.00	990	532.22
3.89			
	$550 \mid 287.78 \mid$	1000	-537.78
	$555 \mid 290.55 \mid$	1050	565.56
	560 293.33	1100	593.33
	$565 \mid 296.11$	1150	621.11
-12 -24.44 44 6.67 94 39.44 320 160.00 5	570 298 89	1200	648.89
-10 -23.33 45 7.22 95 35.00 325 162.78 5	575 301 67	-1250	676.67
	580 304.44	1300	704.44
	585 307 . 22	1350	732.22
	590. 310.00	1400	760.00
	595 - 312.78	1450	787.78
	500 315.56	1500	815.56
	310 321 11	-1550 1600 .	843.33 871.11
	520, 326.67		
	530 332 22	$\frac{1650}{1700}$	898.89
	340 337.78	1700	926.67
	550 343.33	1750	954.44
	i60 348.89°	1800	982.22
	354.44	1850	-1010.00
8 - 13 33 58 14 . 44 140 60 . 00 390 198 . 89 0	580 360 . 00	1900	1037.78
9[-12.78[-59] 15.00[-145] 62.78[-395] 201.67[-0]	365.56	1950	1065.56
10 - 12.22 - 60 - 15.56 - 150 - 65.56 - 400 - 204.44 - 7	700 371.11	2000	1093.33
	710 376.67	2050	1121.11
	720 382.22	$\frac{2100}{2100}$	1148.89
	730 387.78	2150	1176.67
	740 393.33	2200	1204.44
	750 398.89	2250	1232.22
	760 404.44	2300	1260.00
	770 410.00	2350	-1287.78
	780 415.56	2400	-1315.56
19 - 7.22 - 69 - 20.56 - 195 - 90.55 - 445 - 229.44 - 7	790 421.11	2450	1343.33
20 - 6.67 70 21.11 200 93.33 450 232.22 8	800 426.67	2500	-1371.11
21 - 6.11 71 21.67 205 96.11 455 235.00 8	432.22	2550	-1398.89
	820 437.78	2600	-1426.67
	830 443.33	2650	1454.44
24 - 4.44 74 23.33 220 104.44 470 243.33 8	840 448.89	-2700	1482.22
25 - 3.89 75 23.89 225 107.22 475 246.11 8	850 454.44	2750	1510.00
	860 460.00	$\frac{2800}{2800}$	1537.78
	870 465.56	$\frac{2850}{2850}$	1565.56
	880 471.11	$\frac{2900}{2900}$	1593.33
			1621.11
	890 476 . 67	2950	10.51

Specific Gravity, Degrees Twaddle and Degrees Beaumé

English Standard 15°c.

Twaddle.	Beaumé	Specific Gravity	Twaddle	Beaun 6	Specific Gravity	Twaddle	Beaum6	Specifie Gravity	Twaddle	Beaumé	Specific Gravity
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 33 33 43 33 33 44 44 46 47 47 47 47 47 47 47 47 47 47 47 47 47	$\begin{array}{c} 0 \\ 0.7 \\ 1.4 \\ 2.1 \\ 2.7 \\ 3.4 \\ 4.1 \\ 4.7 \\ 5.4 \\ 6.0 \\ 6.7 \\ 7.4 \\ 8.0 \\ 6.7 \\ 7.4 \\ 8.0 \\ 10.0 \\ 11.9 \\ 13.0 \\ 13.6 \\ 14.2 \\ 14.9 \\ 15.4 \\ 16.0 \\ 15.4 \\ 16.0 \\ 15.4 \\ 16.0 \\ 20.3 \\ 20.9 \\ 21.4 \\ 22.0 \\ 23.0 \\ 23.5 \\ 24.0 \\ 22.5 \\ 23.0 \\ 24.5 \\ 25.0 \\ 25.5 \end{array}$	1,000 1,005 1,010 1,015 1,020 1,025 1,030 1,035 1,040 1,055 1,065 1,070 1,075 1,085 1,090 1,105 1,100 1,105 1,110 1,125 1,130 1,135 1,140 1,145 1,155 1,160 1,165 1,170 1,175 1,180 1,185 1,190 1,185 1,190 1,195 1,205 1,210 1,215	444 45 466 477 488 450 551 552 553 554 555 560 661 662 663 664 665 666 6771 72 73 744 755 776 777 880 881 882 883 884 885 886 87	26.0 26.4 26.9 27.4 27.9 28.8 29.3 30.6 31.1 31.5 32.0 33.3 33.7 34.6 35.4 35.4 35.4 35.4 35.4 35.4 36.6 37.4 38.6 39.0 39.4 39.0 39.0 39.0 39.0 39.0 39.0 39.0 39.0	1.220 1.225 1.230 1.235 1.240 1.245 1.250 1.255 1.260 1.265 1.275 1.280 1.295 1.300 1.305 1.315 1.320 1.325 1.330 1.340 1.345 1.350 1.355 1.360 1.365 1.375 1.380 1.375 1.380 1.375 1.380 1.375 1.380 1.340 1.415 1.420 1.425 1.420 1.425 1.430 1.435	88 89 90 91 92 93 94 95 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 120 121 121 121 122 123 124 125 126 127 128 129 120 121 121 121 122 123 124 125 126 127 128 129 120 121 121 122 123 124 125 126 127 128 129 120 120 121 121 121 122 123 124 125 126 127 128 129 120 120 120 120 120 120 120 120	$\begin{array}{c} 44.1 \\ 44.4 \\ 44.8 \\ 45.1 \\ 45.4 \\ 46.1 \\ 46.4 \\ 46.8 \\ 47.1 \\ 48.4 \\ 47.8 \\ 49.0 \\ 49.4 \\ 49.7 \\ 50.0 \\ 350.6 \\ 50.9 \\ 51.5 \\ 52.1 \\ 52.4 \\ 52.3 \\ 00 \\ 51.5 \\ 52.1 \\ 52.4 \\ 52.5 \\ 53.3 \\ 53.6 \\ 53.3 \\ 53.6 \\ 53.9 \\ 154.4 \\ 54.7 \\ 55.0 \\ 255.5 \\ 56.0 \\ 36.6 \\ 656.9 \\ 57.1 \\ \end{array}$	1.440 1.445 1.450 1.455 1.460 1.465 1.470 1.475 1.480 1.495 1.500 1.505 1.515 1.525 1.525 1.530 1.535 1.545 1.555 1.560 1.565 1.575 1.580 1.585 1.590 1.605 1.610 1.615 1.620 1.625 1.630 1.635 1.640 1.645 1.650 1.655	132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 170 171 172 173	57.4 57.7 57.9 58.2 58.9 59.2 59.5 60.0 60.2 60.4 61.4 61.4 61.6 62.3 62.5 63.5 63.5 63.5 63.5 63.5 63.7 64.0 64.2 65.5 65.7 66.3 66.3 66.5 66.7 67.0	1.660 1.665 1.670 1.685 1.680 1.685 1.700 1.705 1.710 1.715 1.720 1.725 1.730 1.735 1.740 1.745 1.755 1.760 1.765 1.775 1.780 1.785 1.780 1.805 1.805 1.810 1.825 1.830 1.845 1.845 1.850 1.865

Decimal Equivalents of Common Fractions

Decimal Equivalent	.515625	53125	516875	.5625	578125	55855	.609375	.625	640625	. 65625	671875	.6875	.703125	71875	. 734375	.750	. 765625	78125	.796875	.8125	828125	S4375	.859375	.875	320068.	.90625	. 921875	. 9375	.953125	.96875	.984375	1.000
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Electrical Definitions

- Ohm. The practical unit of electrical resistance. It is the resistance of a column of mercury one square millimeter in section, 106 centimeters long, at a temperature of 32° Fahr. This is about equivalent to the resistance of 1,000 ft. of No. 10 (B. & S. gage) pure copper wire of a temperature of 75°.
- AMPERE. The practical unit of electrical current. It is the current produced by an electromotive force of one volt in a circuit having a resistance of one ohm. It is the unit of volume or strength of the electric current.
- Volt. The practical unit of electromotive force or a unit of pressure.
- Voltage. The electromotive force of a circuit reckoned in volts. It is this electromotive force (E. M. F.) which causes a current to flow in a closed circuit.
- Watt. The practical unit of electrical power or rate of working. It is the power due to the current of one ampere flowing under an electromotive force of one volt equal, approximately, to 1/746 of one H. P.
- Kilowatt. A unit of electrical power equal to 1,000 watts. Electrical power is usually expressed in kilowatts. A kilowatt equals 1.34 H. P.
- ALTERNATING CURRENT. A succession of electrical currents which rise and fall in strength and flow alternately in opposite directions at regular intervals. The currents or impulses vary in intensity.
- Direct Current. An electrical current constant in direction, though not necessarily so in value.
- Continuous Current. A direct current constant in both value and direction, as a result of constant pressure.
- Candle Power. The standard candle by which all lights are measured is legally held to be a sperm candle consuming 120 grains of wax per hour. In practical measurements standardized incandescent lamps are more reliable and accurate than the primary standard. According to experiments made by the government of the United States a one candle power white light is visible at a distance of a little more than a mile; one of three candle power is visible at two miles.

In 1909 a photometric unit for an international candle power was established by agreement among Great Britain, France, and America, and approved by other countries. This new unit is 1.6 per cent. less than the candle hitherto the standard in the United States.

Load Factor. — The load factor of a machine, plant, or system, is the ratio of the average power to the maximum power during a certain period of time. The average power is taken over a certain interval of time, such as a day or a year, and the maximum is taken over a short interval of the maximum load within that interval.

Standard Units of Capacity

a. Boilers 1	One pound of water evaporated into dry steam from and at 212 deg. per hour.
b. Reciprocating Steam Engines	One indicated horse power developed in the main cylinders. One brake horse power delivered by the main shaft.
c. Steam Turbines	One brake horse power delivered by the main shaft.
d. Turbo-generators (including enginedriven generators)	One kilowatt delivered at the generator terminals, ² not including kilowatts used by exciter. ³ One gallon of water discharged to the force
c. Pumping Machinery	main in 24 hr. One gallon of water discharged per min. ⁴ One water horse power delivered to the force main, based on the total head, including suction.
f. Compressors, Blowers and Fans .	One cu. ft. of air at 62 deg. and 30 in. ⁵ One air horse power.
g. Locomotives	One indicated horse power developed in the main cylinders. One dynamometer horse power delivered to the draw-bar.
h. Gas Producers	One pound of dry fuel of given quality consumed per hour. One cu. ft. per hour of dry gas having a stated quality at 60 deg. and 30 in. One brake horse power delivered by the
i. Gas and Oil Engines	main shaft. One indicated horse power developed in the engine cylinder.
j. Waterwheels	One brake horse power delivered by the main shaft. One kilowatt delivered at the generator terminals, ² not including kilowatts used by exciter. ³

¹ A subsidiary unit which may be used for stationary boilers is a "Boiler Horse Power," or 34½ lbs, of water evaporated from and at 212 deg, per hour, i.e., from water at 212 deg, into steam at the same temperature. The unit called "Myriawatt" has been suggested by some engineers as a unit of boiler capacity. It is 2 per cent greater than the "Boiler Horse Power" and is equivalent to 34,150 heat units per hour, the "Boiler Horse Power" being 33,479 heat units per hour.

² If switchboard instruments are used for the electrical measurements, correction should be made for the drop in voltage between generator and switchboard, unless the drop is so small as to be negligible.

³ If the exciter current is taken from an outside source the kw. thus supplied, including field rheostat fosses, are to be deducted from the total output. Likewise the kw. used by separately driven ventilating fan. This unit applies to small pumps and some classes of large-sized pumps.

^b 30 in. mercury barometer refers in round numbers to a standard atmosphere at 62 deg. In exact figures, the standard atmosphere is 29.951 in. of mercury at 62 deg.

Heating Formulæ

To find Amount of Radiation required.

Mill's rule, sometimes called the rule "2-20-200," is as follows: "To find the amount of radiation required to heat a room with low-pressure steam to 70 degrees Fahr., when the outside temperature is at zero, allow 1 sq. ft. of radiation for every 200 cu. ft. of contents, 1 sq. ft. of radiation for every 20 sq. ft. of outside wall surface, and 1 sq. ft. of radiation for every 2 sq. ft. of glass surface (counting outside doors as glass surface). The sum of these results will be the amount of radiation required."

For hot water, add 60 per cent to the results obtained by rule for low-pressure steam; for semi-direct (direct-indirect) radiation, add 25 per cent; for indirect steam, add 50 per cent; for indirect hot water, add 75 per cent to the amount of direct radiation obtained by rule.

These rules do not take into consideration the factors of extraordinary exposure, and such additions should be made to the figures obtained as

will compensate for such extraordinary heat losses.

It is considered to be excellent practice to add 10 per cent to the radiation figures for rooms having a northern, northwestern, or western exposure, and when a building is heated intermittently to increase the radiation about 25 per cent, and, provided the building is loosely constructed or without proper weather protection, the amount of radiation figured must be strengthened accordingly.

As an example of estimating, we will consider a room 12 ft. x 16 ft. in area, having a ceiling 10 ft. high; the room contains two single windows

3 ft. x 6 ft. and one large window 5 ft. x 6 ft.:

$$3 \times 6 = 18 \times 2 = 36$$

 $5 \times 6 = 30$ = 30
 -66 sq. ft. windows.
 $12 + 16 \times 10 = 280$ sq. ft. exposed wall.
 $12 \times 16 \times 10 = 1,920$ eu. ft. contents.
 $66 \div 2 = 33$
 $280 \div 20 = 14$
 $1,920 \div 200 = 9.6$

56.6 sq. ft. direct radiation required.

The room requires 33 sq. ft. of direct radiation low-pressure steam to compensate for heat losses through cooling by the window glass; 14 sq. ft. for loss through cooling by exposed wall surface, and 9.6 sq. ft. to make up for the loss due to leakage, which is one complete change of air in the room hourly. If hot water is used, add 60 per cent = 90.5 sq. ft.

Note. — In practice I have found invariably the amount of heating surface required was somewhat less than would be called for in following the above rule. I consider that the rule is too generous except in greatly exposed situations. — C. H. Fish.

Manila Rope (Medium Lay)

U. S. Standard Specification No. 61

Approximate Diameter (Inches)	Circum- ference (Inches)	Approxi- mate Feet per Coil	Approvi- mate Gross Weight per Coil (Pounds)	Maximum Net Weight per Foot of Rope (Pounds)	Minimum Feet per Pound	Minimum Breaking Strength (Pounds)	200 D ² (Pounds)
³ ₁₆ (6 yarns)	$\frac{1}{2}$	3,000	45	.015	66.6	590	7.0
$\frac{1}{4}$ (6 yarns)	3 4	2,750	55	.020	50.0	700	12.5
$\frac{5}{16}$ (9 yarns)	1	2,250	65	.029	34.5	1,200	19.5
$\frac{3}{8}$ (12 yarns)	1 1/8	1,620	66	. 041	24.4	1,450	28.2
1 ⁷ 6 (15 yarns)	$1\frac{1}{4}$	1,200	70	.054	18.5	1,750	38.2
¹⁵ / ₃₂ (18 yarns)	$1\frac{3}{8}$	1,200	80	. 064	15.6	2,100	44.0
$\frac{1}{2}$ (21 yarns)	$1\frac{1}{2}$	1,200	90	.074	13.5	2,450	50.0
9 16	$1\frac{3}{4}$	1,200	126	. 103	9.71	3,150	63
	2	1,200	160	. 131	7.53	4,000	78.1
5 8 3 4	$2\frac{1}{4}$	1,200	198	. 162	6.17	4,900	112.
1 3 1 6	$2\frac{1}{2}$	1,200	234	. 191	5.23	5,900	132.0
78	$2\frac{3}{4}$	1,200	270	.221	4.55	7,000	153.0
3	3	1,200	324	.265	3.77	8,200	200.0
1 6	$3\frac{1}{4}$	1,200	378	. 309	3.24	9,500	226.0
18	$3\frac{1}{2}$	1,200	432	. 353	2.83	11,000	252.
$\lfloor \frac{1}{4} \rfloor$	$3\frac{3}{4}$	1,200	504	.412	2.43	12,500	312.0
5 16	4	1,200	576	. 470	2.13	14,200	345.0
3 8	$4\frac{1}{4}$	1,200	648	. 529	1.89	16,000	378.0
$\frac{1}{2}$	$4\frac{1}{2}$	1,200	720	.588	1.70	17,500	450.0
9 1 6	$4\frac{3}{4}$	1,200	S10	. 662	1.51	19,500	490.0
5/8	5	1,200	900	.735	1.36	21,500	528.0
3 4	$5\frac{1}{2}$	1,200	1,080	.882	1.13	25,500	612.0
. 4 }	6	1,200	1,296	1.06	. 943	30,000	800.0
21 6	$6\frac{1}{2}$	1,200	1,500	1.23	.813	34,000	850.0
1 4	7	1,200	1,764	1.44	.694	38,500	1,012.0
$2\frac{1}{2}$	$7\frac{1}{2}$	1,200	2,016	1.65	.606	43,500	1,250.0
$\frac{72}{8}$	S	1,200	2,304	1.88	. 532	49,000	1,380.0
7 8 2 7 8	$8\frac{1}{2}$	1,200	2,580	2.11	.474	55,000	1,660.0
8	9	1,200	2,916	2.38	.420	61,000	1,800.0
2 1/8	$9\frac{1}{2}$	1,200	3,240	$\frac{2.35}{2.65}$.377	67,000	1,950.0
$\frac{1}{4}$	$10^{-9\frac{1}{2}}$	1,200 $1,200$	3,600	$\frac{2.03}{2.94}$.340	73,000	2,120.6
. <u>5</u> - 1 €	10^{10}	1,200	4,000	$\frac{2.94}{3.25}$.308	79,600	2,120.0
$\frac{1}{2}$	$\frac{10_{\overline{2}}}{11}$	1,200 $1,200$	4,400	$\frac{5.25}{3.57}$.308	\$6,400	2,150.0
5 8	$11 \\ 11 \\ \frac{1}{2}$	1,200 $1,200$	4,400	3.90	.250	93,600	$\frac{2,430.0}{2,630.0}$
	$\frac{11\frac{\pi}{2}}{12}$					101,000	2,812.0
$3\frac{3}{4}$	12	1,200	5,200	4.24	. 236	101,000	2,812.0

Sag of Manila Rope on Driving and Slack Sides

Distance	Sag on		VELOCITY	(FEET PER M	INUTE)	
Between Pulleys (Feet)	Driving Side, All Speeds	3,000	4.000	4,500	5,000	5,500
	(Feet)		Sa	g on Slack Sid	e	
30	. 19	.45	.39	.36	, 33	. 30
40	. 34	.80	. 69	. 64	. 59	. 53
50	. 53	1.2	1.1	1.0	.92	.84
60	.76	1.8	1.7	1.4	1.3	1.2
70	1.0	2.4	2.1	1.9	1.7	1.6
80	1.4	3.2	2.9	2.5	2.3	2.1
90	1.7	4.0	3.5	3.2	3.0	2.7
100	2.1	5.0	4.3	4.0	3.7	3.3
120	3.0	7.2	6.2	5.7	5.3	4.8
140	4.1	9.9	8.5	7.8	7.2	6.6
160	5.4	12.9	11.1	10.2	9.5	8.6

Horse Power transmitted by Different Sized Ropes at Various Speeds

DIAMETER				VELO	CITY (FE	ET PER	VINUTE)				
of Rope (Inches)	1,000	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000	5,500	6,000
$\frac{3}{4}$	2.3	3.3	4.3	5.2	6.0	6.6	7.2	7.3	7.4	7.3	6.9
78	3.0	4.5	5.9	7.0	8.2	9.0	9.6	9.8	10.0	9.6	9.0
1	4.0	5.9	7.7	9.2	10.6	11.8	12.7	12.9	13.0	12.7	12.0
$1\frac{1}{8}$	5.0	7.5	9.7	11.6	13.5	14.9	16.0	16.3	16.7	16.5	15.3
$1\frac{1}{4}$	6.3	9.1	12.0	14.3	16.7	18.5	20.0	20.2	20.7	20.1	18.9
$1\frac{3}{8}$	7.5	10.8	14.4	17.4	20.0	22.1	23.7	24.5	24.6	24.0	22.3
$1\frac{1}{2}$	9.0	13.5	17.4	20.7	23.0	26.3	28.7	29.0	29.5	28.6	26.
$1\frac{5}{8}$	10.5	15.5	20.1	24.3	27.9	30.8	32.9	34.1	34.3	33.3	31.0
$1\frac{3}{4}$	12.3	18.0	23.6	28.2	32.7	36.4	38.5	39.4	40.5	38.7	36.0
2	16.0	23.2	30.6	36.8	42.5	46.7	50.0	51.7	52.8	50.6	47.3
$2\frac{1}{4}$	20.0	29.6	38.6	46.6	53.6	59.2	63.6	65.8	66.3	64.4	60.5
$2\frac{1}{2}$	25.0	36.6	47.7	57.5	66.0	71.2	78.0	80.0	81.0	79.0	73.8

Diameter of Line Shafts

The table on the following page applies to Line Shafts with bearings 8 feet apart. To find the proper diameter for Line Shafts with bearings any other distance apart, multiply the diameter given in the table on the opposite page by the Constant Number corresponding to the distance between bearings in the table below.

Distance Between Bearings	Constant Number	Distance Between Bearings	Constant Number
Feet Inches		Feet Inches	
2 = 0	. 354	7 6	. 9527
2 6	.418	8 0	1.00
3 0	. 479	8 6	1.0465
3 6	. 538	9 0	1.092
4 0	, 595	9 6	1.137
4 6	. 6495	10 0	1.182
5 0	. 7029	10 6	1.226
5 6	. 755	10 9	1.248
6 0	. 806	11 0	1.269
6 6	. 856	11 6	1.315
7 0	. 905	12 0	1.355

Card Clothing Data

English Counts	Points per Square Foot	American Number of Wire
60s	43,200	28
70s	50,400	30
80s	57,600	31
90s	64,800	32
100s	72,000	33
110s	79,200	34
120s	86,400	35
130s	93,600	36

Counts ordinarily used

		Cylinders	Doffers	Flats
Coarse yarns . Medium yarns		90s to 100s 100s to 110s	100s to 110s 110s to 120s	90s to 100s 100s to 110s

Horse Power transmitted by Cold Rolled Shafting. Second Movers or Line Shafts with Bearings 8 Feet Apart

				REVOLUT	IONS PER	MINUTE			
DIAMETER OF SHAFT	100	150	2.00	225	250	275	300	325	350
				H	orse Powe	er		_	
115	15	22	29	33	36	40	4.1	47	51
$2\frac{3}{1.6}$	21	31	42	47	52	58	63	68	73
276	29	43	58	65	72	80	87	94	101
211	39	58	78	87	97	107	116	126	136
215 -16	51	76	101	114	127	139	152	165	177
$3\frac{3}{16}$	65	97	130	146	162	178	194	210	227
3,76	81	122	162	183	203	223	244	264	284
3^{11}_{16}	100	150	201 .	226	251	276	301	326	351
3^{15}_{16}	122	183	244	275	305	336	366	397	427
$4\frac{3}{16}$	147	220	294	330	367	404	441	477	514
$4\frac{7}{16}$	17.5	262	3.50	393	437	481	524	568	612
$4\frac{1}{1}\frac{1}{6}$	206	309	412	463	515	566	618	669	721
4^{15}_{16}	241	361	481	542	602	662	722	782	843
$5\overline{1}^3$ 6	279	419	559	629	698	768	838	908	978
$57^{7}s$	322	482	643	724	804	884	965	1,045	1,125
$5\frac{1}{1}\frac{1}{6}$	368	552	736	828	920	1,012	1,104	1,196	1,288
$5\frac{1}{1}\frac{5}{6}$	419	628	837	942	1,047	1,151	1,256	1,361	1,465
$6\frac{3}{16}$	474	711	948	1,066	1,185	1,303	1,421	1,540	1,658
$67\overline{a}$	534	800	1,067	1.201	1,334	1,467	1,601	1,734	1,867
$6\frac{1}{1}\frac{1}{6}$	598	897	1,196	1,346	1,496	1,645	1,795	1,944	2,094
$6^{\frac{1}{1}}_{16}^{5}$	668	1,002	1,336	1,503	1,669	1,836	2,003	2,170	2,337
$7\frac{3}{16}$	743	1,114	1,485	1,671	1,857	2,042	2,228	2,414	2,599
$7\frac{7}{16}$	823	1,234	1,646	1,851	2,057	2,263	2,468	2,674	2,880
$7\frac{1}{16}$	909	1,363	1,817	2,045	2,272	2,499	2,726	2,953	3,180
715	1,000	1,500	2,000	2,250	2,501	2,751	3,001	3,251	3,501

The above table is figured by the following rule: Multiply the cube of the diameter of the shaft by the revolutions per minute and divide by 50.

Horse Power of Single Belts

Pulleys, 100 R. P. M.; Belt Contact, ½ Circumference

DIAMETER			WIDTH .	of Single	Belt in I	CHES		
PULLEY	3	4	5	6	s	10	12	14
6	. 59	.78	.98	1.2	1.6	$\frac{2.0}{2.3}$	$\frac{2.4}{2.8}$	2.7
7	. 69	.92	1.2	1.4	1.8	$\frac{2.3}{2}$	$\frac{2.8}{1}$	3.2
8	.78	$\begin{array}{c} 1.0 \\ 1.2 \end{array}$	$\frac{1.3}{1.5}$	$\begin{array}{c} 1.6 \\ 1.8 \end{array}$	$\frac{2.1}{2.3}$	$\frac{2.6}{2.9}$	3.1 3.5	3.7
$\frac{9}{10}$.88	1.3	$\frac{1.3}{1.6}$	2.6	$\frac{2.6}{2.6}$	$\frac{2.3}{3.3}$	$\frac{3.9}{3.9}$	4.1 4.6
11	1.1	1.4	1.8	$\frac{2.0}{2.2}$	$\frac{2.0}{2.9}$	$\frac{3.5}{3.6}$	4.3	5.0
12	1 2	1.6	2.0	$\frac{5.2}{2.4}$	3.1	3.9	4.7	5.8
13	$\frac{1.2}{1.3}$	1.7	2.1	$\begin{array}{c} 2.4 \\ 2.5 \end{array}$	3.4	4.2	5.1	5.9
14	1.4	1.8	2.3	2.8	3.7	4.6	5.5	6.4
15	1.5	2.0	2.5	3.0	3.9	4.9	5.9	6.9
16	1.6	2.1	$\frac{2.6}{2.8}$	3.1	4.2	5.2	6.3	7.3
17	1.7	2.2	2.8	3.3	4.5	5.6	6.7	7.8
18 19	1.8	$\frac{2.4}{2.5}$	$\frac{3.0}{3.1}$	$\frac{3.5}{3.7}$	$\begin{array}{c} 4.7 \\ 5.0 \end{array}$	$\frac{5.9}{6.2}$	$\begin{bmatrix} 7.1 \\ 7.5 \end{bmatrix}$	8.3 8.3
20	$\frac{1.9}{2.0}$	$\frac{2.5}{2.6}$	3.3	3.9	$\frac{5.0}{5.2}$	$\frac{6.2}{6.6}$	$7.9 \\ 7.9$	9.1
$\frac{20}{21}$	$\frac{2.0}{2.1}$	$\tilde{2}.7$	3.4	$\frac{3.3}{4.1}$	5.5	6.9	8.2	9.
$\frac{51}{22}$	$\frac{2}{2}$	$\tilde{2}.9$	3.6	4.3	5.8	7.2	8.6	10.
23	$\begin{bmatrix} 2.2 \\ 2.3 \end{bmatrix}$	3.0	3.8	4.5	6.0	7.5	9.0	10.
24	$\begin{bmatrix} 2.4 \\ 2.5 \end{bmatrix}$	3.1	3.9	4.7	6.3	$\begin{array}{c} 7.9 \\ 8.2 \end{array}$	9.4	11.
25	2.5	3.3	4.1	4.9	6.6	8.2	9.8	11.
26	$\begin{bmatrix} 2.6 \\ 2.7 \end{bmatrix}$	3.4	4.3	5.1	6.8	8.5	10.2	11.
27	$\frac{2.7}{2}$	$\frac{3.5}{5}$	4.4	5.3	$\frac{7.1}{2}$	8.8	10.6	12.
28	2.8	$\frac{3.7}{3.8}$	$\frac{4.6}{4.8}$	$\frac{5.5}{5.7}$	$\frac{7.3}{7.6}$	$\frac{9.2}{9.5}$	11.0 11.4	12. 13.
29 30	$\frac{2.9}{2.9}$	$\frac{3.8}{3.9}$	$\frac{4.8}{4.9}$	$\frac{5.7}{5.9}$	$7.0 \\ 7.9$	9.8	11.4	13.
31	3.0	4.1	5.1	$\frac{6.3}{6.1}$	8.1	10.2	12.2	14.
32	3.1	4.2	5.2	6.3	8.4	10.5	12.6	14.
33	3.2	4.3	5.4	6.5	8.6	10.8	13.0	15.
34	3.3	4.4	5.6	6.7	8.9	11.1	13.3	15.
35	3.4	4.6	5.7	6.9	9.2	11.5	13.7	16.
36	3.5	4.7	$\frac{5.9}{3.1}$	$\frac{7.1}{2}$	9.4	11.8	14.2	16.
37	$\frac{3.6}{2.7}$	4.8	$\frac{6.1}{c}$	$\frac{7.3}{7.4}$	9.7	$12.1 \\ 12.4$	14.5	16.
38 39	$\frac{3.7}{3.8}$	$\begin{bmatrix} 5.0 \\ 5.1 \end{bmatrix}$	$\frac{6.2}{6.4}$	7.4 7.7	$\begin{array}{c} 9.9 \\ 10.2 \end{array}$	$\frac{12.4}{12.8}$	$14.9 \\ 15.3$	17. 17.
40	$\frac{3.8}{3.9}$	$\frac{5.1}{5.2}$	6.6	7.9	$10.2 \\ 10.5$	13.1	$15.5 \\ 15.7$	18.
42	4.1	5.5	6.9	8.2	11.0	13.7	16.4	19.
44	4.3	5.8	7.2	8.6	11.5	14.4	17.3	20.
46	4.5	6.0	7.5	9.0	12.0	15.0	18.0	21.
48	4.7	6.3	7.9	9.4	12.6	15.7	18.8	22.
50	4.9	6.5	8.2	9.8	13.0	16.3	19.6	22.
52	5.1	6.8	8.5	$\frac{10.2}{10.6}$	13.6	17.0	$\frac{20.4}{21.9}$	23.
54	5.3	7.1	8.8	10.6	14.2	17.7	21.2	24.

Note. — The above table is based on one horse power per inch of width for each 800 feet per minute belt speed. The horse power for other pulley speeds in proportion.

Horse Power of Double Belts

Pulleys, 100 R. P. M.; Belt Contact, ½ Circumference

DIAMETER			W_{IDTH}	or Double	Belt in I	NCHES		
PULLEY	3	4	5	6	7	8	9	10
18	2.8	3.8	4.7	5.7	$\frac{6.6}{2}$	7.6	8.5	9.4
19	3.0	4.0	$\begin{array}{c} 5.0 \\ 5.2 \end{array}$	$\frac{6.0}{2}$	$\frac{7.0}{2}$	8.0	9.0	9.9
$\frac{20}{21}$	$\frac{3.1}{3.3}$	$\frac{4.2}{4.4}$	$\frac{5.2}{5.5}$	$\substack{6.3 \\ 6.6}$	$\frac{7.3}{7.7}$	$\begin{array}{c c} 8.4 \\ 8.8 \end{array}$	$\frac{9.4}{9.9}$	$\frac{10.5}{11.0}$
$\frac{21}{22}$	$\frac{3.5}{3.5}$	$\frac{4.4}{4.6}$	$\frac{5.5}{5.8}$	$\frac{6.0}{6.9}$	8.1	9.2	10.4	11.5
$\frac{22}{23}$	$\frac{3.6}{3.6}$	4.8	6.0	7.2	8.4	9.50	10.8	12.0
$\frac{23}{24}$	3.8	5.0	6.3	$7.\overline{6}$	8.8	10.1	11.3	12.6
$\overline{25}$	3.9	5.2	6.5	7.8	9.2	10.4	11.8	13.1
26	4.1	5.4	6.8	8.2	9.5	10.9	12.2	13.6
27	4.2	5.7	7.1	8.5	9.9	11.3	12.7	14.1
28	4.4	5.9	7.3	8.8	10.3	11.7	13.2	14.7
29	4.6	6.1	$\frac{7.6}{6}$	-9.1	10.6	12.1	13.7	15.2
30	4.7	6.3	7.9	9.4	11.0	12.6	14.1	15.7
31	$\frac{4.9}{5.0}$	$\begin{array}{c} 6.5 \\ 6.7 \end{array}$	8.1	$\begin{array}{c} 9.7 \\ 10.0 \end{array}$	$\begin{array}{c c} 11.4 \\ 11.7 \end{array}$	$13.0 \\ 13.4$	$14.6 \\ 15.1$	$\begin{array}{c c} 16.2 \\ 16.7 \end{array}$
32 33	$\frac{5.0}{5.2}$	$\begin{bmatrix} 6.7 \\ 6.9 \end{bmatrix}$	$\begin{bmatrix} 8.4 \\ 8.6 \end{bmatrix}$	$\frac{10.0}{10.4}$	$\frac{11.7}{12.1}$	13.4	$15.1 \\ 15.5$	17.3
34	$\frac{5.2}{5.3}$	7.1	8.9	$10.4 \\ 10.7$	12.5	14.2	16.0	17.8
35	5.5	7.3	9.2	11.0	12.8	14.7	16.5	18.3
36	5.7	7.5	9.4	11.3	13.2	15.1	17.0	18.9
37	5.8	7.7	9.7	11.6	13.6	15.5	17.4	19.4
38	6.0	8.0	10.0	11.9	13.9	15.9	17.9	19.9
39	6.1	8.2	10.2	12.3	14.3	16.3	18.4	20.4
40	6.3	8.4	10.5	12.6	14.7	16.8	18.8	20.9
42	$\frac{6.6}{6.0}$	8.8	11.0	13.2	15.4	17.6	19.8	22.0
44	$\substack{6.9\\7.2}$	$\frac{9.2}{9.6}$	$\begin{array}{c c} 11.5 \\ 12.0 \end{array}$	$13.8 \\ 14.5$	$16.1 \\ 16.9$	$ \begin{array}{c c} 18.4 \\ 19.3 \end{array} $	$\begin{bmatrix} 20.7 \\ 21.7 \end{bmatrix}$	$\begin{bmatrix} 23.0 \\ 24.1 \end{bmatrix}$
$\begin{bmatrix} 46 \\ 48 \end{bmatrix}$	$\frac{7.2}{7.5}$	$\frac{9.0}{10.1}$	12.6	15.1	17.6	$\frac{19.3}{20.1}$	$\frac{21.7}{22.6}$	25.1
50	7.9°	10.5	13.1	15.7	18.3	20.1	$\frac{23.6}{23.6}$	$\frac{26.1}{26.2}$
52	8.2	10.9	13.6	16.3	19.1	21.8	$\frac{24.5}{24.5}$	$\frac{27.2}{27.2}$
54	8.5	11.3	14.1	17.0	19.8	22.6	25.4	28.3
56	8.8	11.7	14.7	17.6	20.5	23.5	26.4	29.3
58	9.1	12.1	15.2	18.2	21.3	24.3	27.3	30.4
60	9.4	12.6	15.7	18.8	22.0	25.1	28.3	31.4
64	10.1	13.4	16.8	$\frac{20.1}{1}$	23.5	26.8	30.2	33.5
6S	$\frac{10.7}{11.2}$	14.2	17.8 18.8	$\begin{array}{c} 21.4 \\ 22.6 \end{array}$	24.9	28.5	32.0	35.6
$\frac{72}{76}$	$\frac{11.3}{11.9}$	$\begin{array}{c c} 15.1 \\ 15.9 \end{array}$	$\frac{18.8}{19.9}$	$\frac{22.6}{23.9}$	$\begin{bmatrix} 26.4 \\ 27.9 \end{bmatrix}$	$\begin{array}{c c} 30.2 \\ 31.8 \end{array}$	$ \begin{array}{r} 33.9 \\ 35.8 \end{array} $	$\begin{vmatrix} 37.7 \\ 39.8 \end{vmatrix}$
80	$11.9 \\ 12.6$	16.8	$\frac{19.9}{20.9}$	25.9 25.1	$\frac{27.9}{29.3}$	33.5	37.7	$\begin{vmatrix} 39.8 \\ 41.9 \end{vmatrix}$
84	$\frac{12.0}{13.2}$	17.6	$\frac{20.9}{22.0}$	$\frac{26.1}{26.4}$	$\frac{29.3}{30.8}$	$\frac{35.3}{35.2}$	39.6	$\begin{vmatrix} 41.9 \\ 44.0 \end{vmatrix}$
88	13.8	18.4	23.0	$\frac{57.6}{27.6}$	32.3	36.9	41.5	46.1
92	14.5	19.3	24.1	28.9	33.7	38.5	43.3	48.2
96	15.1	20.1	25.1	30.2	35.2	40.2	45.2	50.3

Note. — The above table is based on one horse power per inch of width for each 500 feet per minute belt speed. The horse power for other pulley speeds in proportion.

Horse Power of Double Belts — (Concluded)

Pulleys, 100 R. P. M.; Belt Contact, ½ Circumference

DIAMETER			W_{IDTH}	of Double	E BELT IN	Inches		
OF PULLEY	12	1-4	16	18	20	22	24	26
18	11.3	13.2	15.1	17.0	18.9	20.7	22.6	24.
19	11.9	13.9	15.9	17.9	19.9	21.9	23.9	25.
26	12.6	14.7	16.8	18.8	20.9	23.0	$\frac{25.1}{25.1}$	$\frac{27}{27}$.
$\frac{20}{21}$	13.2	15.4	17.6	19.8	$\frac{20.0}{22.0}$	$\frac{23.3}{24.2}$	$\frac{56.4}{26.4}$	$\overline{28}$.
$\frac{51}{22}$	13.8	16.1	18.4	20.7	23.0	$\frac{25.5}{25.3}$	27.6	$\frac{29}{29}$.
23	14.4	16.8	19.3	$\frac{21.7}{21.7}$	$\frac{24.1}{24.1}$	$\frac{26.5}{26.5}$	$\frac{28.9}{28.9}$	31.
$\frac{23}{24}$	15.1	17.6	20.1	$\frac{22.6}{22.6}$	$\frac{51.1}{25.1}$	$\frac{27.6}{27.6}$	30.2	$\frac{31}{32}$.
$\frac{24}{25}$	$\frac{15.7}{15.7}$	18.3	$\frac{20.1}{20.9}$	$\frac{22.5}{23.5}$	$\frac{26.1}{26.2}$	$\frac{5}{28.7}$	31.3	34.
$\frac{26}{26}$	16.3	19.1	$\frac{20.3}{21.8}$	$\frac{29.5}{24.5}$	27.2	$\frac{29.9}{29.9}$	32.7	$\frac{31.}{35.}$
27	17.0	19.8	$\frac{21.6}{22.6}$	$\frac{5}{25.4}$	$\frac{1}{28.3}$	$\frac{23.3}{31.1}$	33.9	36.
28	17.6	$\frac{19.5}{20.5}$	$\frac{23.5}{23.5}$	$\frac{26.4}{26.4}$	$\frac{29.3}{29.3}$	32.2	35.2	38.
$\frac{25}{29}$	$\frac{17.0}{18.2}$	$\frac{20.3}{21.3}$	$\frac{23.5}{24.3}$	$\frac{20.4}{27.3}$	30.4	33.4	36.4	$\frac{33.}{39.}$
30	18.8	$\frac{21.5}{22.0}$	$\frac{24.3}{25.1}$	$\frac{27.3}{28.3}$	31.4	34.6	37.7	40.
		$\frac{22.0}{22.7}$		$\frac{20.5}{29.2}$	32.4		38.9	42.
31	19.5		25.9			$\frac{35.7}{26.8}$		
32	$\frac{20.1}{20.7}$	23.4	26.8	30.1	33.5	$\frac{36.8}{38.0}$	40.2	43.
33	20.7	24.2	$\frac{27.6}{20.2}$	31.1	34.6		$\frac{41.5}{10.7}$	44.
34	21.4	24.9	28.5	32.0	35.6	39.2	$\frac{42.7}{11.0}$	46.
35	22.0	25.7	29.3	33.0	$\frac{36.6}{27}$	40.3	44.0	47.
36	22.6	26.4	30.1	33.9	37.7	41.5	45.2	49.
37	23.2	27.1	31.0	34.9	38.7	42.6	46.5	50.
38	23.9	27.9	31.8	35.8	39.8	43.8	47.8	51.
39	24.5	28.6	32.7	36.7	40.8	44.9	49.0	53.
40	25.1	29.3	33.5	37.7	41.9	46.1	50.3	54.
42	26.4	30.8	35.2	39.6	44.0	48.4	52.8	57.
44	27.6	32.2	36.8	41.4	-46.1	50.7	55.3	59.
46	28.9	33.7	38.5	43.4	48.2	53.0	57.8	62.
48	30.1	35.2	40.2	45.2	50.3	55.3	60.3	65.
50	31.4	36.7	41.9	47.1	52.4	57.6	62.8	-68.
52	32.7	-38.2	43.5	49.0	54.4	59.9	65.3	70.
54	33.9	39.6	45.2	50.9	56.5	62.2	67.9	73.
56	35.2	41.0	46.9	52.8	58.6	64.5	70.4	76.
58	36.4	42.5	48.6	54.6	60.7	66.8	72.9	78.
60	37.7	44.0	50.2	56.5	62.8	69.1	75.4	81.
64	40.2	46.9	53.6	60.3	67.0	73.7	80.4	87.
68	42.7	49.8	57.0	64.1	71.2	78.3	85.4	92.
72		52.8	60.3	67.9	75.4	82.9	90.5	98.
$7\overline{6}$	$\begin{array}{c} 45.2 \\ 47.7 \end{array}$	55.7	63.7	71.6	79.6	87.5	95.5	103.
80	50.3	58.6	67.0	75.4	83.8	92.1	100.5	108.
84	52.8	61.6	70.4	79.2	87.9	96.7	105.5	114.
88	55.3	64.5	73.7	82.9	92.2	101.4	110.6	119.
92	57.8	67.4	77.1	86.7	96.3	106.0	115.6	125.
$\frac{95}{96}$	60.3	70.4	80.4	90.5	100.5	110.6	120.6	130.

Note. — The above table is based on one horse power per inch of width for each 500 feet per minute belt speed. The horse power for other pulley speeds in proportion.

Approximate Power required for Cotton Machinery

				17	se Powe
Bale Breaker				nor	3-5
	•		•		- 3- <i>5</i> - 3
Self-Feeding Openers	Rontor	Broak	or L	915-	· ·
	Peater	тисак	CI IA	up-	9
per	Sanne			•	$\frac{3}{5}$
40" Single Beater Intermediate or Finisher I Two-Beater Intermediate or Finisher Lappe	r Garlalac		•		10-1
Wasto Pielson	ı		•	:	3
Waste Picker	•				$\frac{3}{2}$
40" Revolving Flat Card, Production 750 lb	a. 1101	· wools		•	1
20 Revolving Flat Card, Froduction 750 in	s. per	Week	•		$\frac{1}{2}$
Sliver Lap Machine				•	$1^{\overline{2}}$
Comban Chard			•	•	-
Comber 6-head			٠	٠	$\frac{1}{2}$ $\frac{2}{3}$
Comber 8-head	•		٠	•	
Drawing Frames 4 to 5 deliveries per .	•		٠	•	1
Slubber Frames 40 to 45 spindles per				•	1
Intermediate Frames 55 to 60 spindles per				•	1
Roving Frames 70 to 85 spindles per Jack or Fine Roving Frames 100 spindles pe					1
Jack or Fine Roving Frames 100 spindles po	er				1
Ring Spinning Frames:					
6,000 r. p. m. (Filling) 110 spindles per					1
7,000 r. p. m. (Filling) 100 spindles per					1
8,000 r. p. m. (Warp) 90 spindles per					1
8,500 r. p. m. (Warp) 80 spindles per					1
9,000 r. p. m. (Warp) 70 spindles per					1
10,000 r. p. m. (Warp) 60 spindles per					1
Mule, 720 spindles per					$7\frac{1}{2}$
Mule, 720 spindles per					1
Cone Winders 65 drums per	•		•	•	ĩ
Spoolers 200 to 300 spindles per			•		î
	•		•	•	1_
	•		•	•	1
Ball Warpers	•		•	•	2^2
	•		•	•	<u>ت</u>
Looms:					1
52 and 50	•		•	•	$\frac{\overline{4}}{1}$
Looms: 32" and 36"			•	•	3 1
80"					$\frac{2}{2}$
92" to 108"					$\frac{3}{4}$
Brusher					1
Brusher and Shearer					3
Cloth Folder					$\frac{1}{3}$

Note. — The above figures are only approximate, but they give a fair average of the power required to drive the various machines. The speed production and many other conditions affect the power consumed. For Friction of Belting and Shafting add from 18 to 22 per cent.

Common and Range of Production for Cotton Machinery

Compiled by Professor Stephen E. Smith

MACHINE	Range of Draft	Common Draft	Range of Production (10 Hours)	Common Production (10 Hours)	Per Cent Waste	Range of Speeds R. P. M.	Common Speeds R. P. M.	Range of Sizes	Common	Per Cent Stops
Bale opener Broater nieter	1 1	10	4,000-10,000	5,000-7,000	9 5 -3	9" Cal. Boll	1 92	10-30	13-16	10 5
Intermediate mistor	6. 14	1 <	1 000-9 500	1 200-1 600	6 6 E	S- 1		06-01	19-15	1.0
Finisher picker Card	· ·	4 90–110	1,000-2,500 1,000-2,500 30-200	1,200-1,600 1,200-1,600 85-150	$\frac{1.5}{1.5-2}$ 4-12 $(5-6)$	4-8 27" Doffer	6 6-12	10-20 Grains	11-14 50-60	50.5
Sliver lapper (20	$1\frac{3}{4} - 2\frac{1}{2}$	$2-2\frac{1}{4}$	750-1,200	1,000	П	4–18 5" Press Roll	90-100	30-100 350-800	450-600	25
ends) Ribbon lapper (4	3–5	41	750-1,200	1,000		96-106 00-109	90-100	350-800	450 - 600	25
head) Comb (8 head) .	40-s0	09	80–150	100-128	Noil 8-30 Common	Nips 90-130	100	Grains 40–70	50-60	£Θ
Draw frame (6 ends)	4-8	9	75-300	100-150	12-18 Less than 1	Front Roll	300-330	40-70	50-60	20 - 25
Slubber	3-5	4			Less than 1	Sp. Speed	Sp. Speed	Hank 25-1 0	Hank	15-20
Intermediate Fine Jack	5-7 6-8	465	Production figures omitted on account of	es recount of	Less than 1 Less than 1 Less than 1	800-1,000 1,000-1,200 1,200-1,500	800-1,000 1,000-1,200 1,200-1,500	1-2.5 2.5-6.0 6 Hank	1-2.5 2.5-6.0 6 Hank	12-15 4-12 7-9
Ring spinning	6-20 6-20	8-12 8-12	great variety as roving sizes change	rriety cs change	Less than 1 Less than 1	4,000-10,000	4,000-10,000	and up 4's-1.10 15's-400	and up 4's-140 15s-400	10

Metric Number	English Number	French Number	Austrian Number	Netherlands Number
1.	0.59	0.5	0.483	0.651
1.694	1.	0.8475	0.818	1.103
2.	1.18	1.	0.966	1.302
2.07	1.222	1.035	1.	1.3478
1.535	0.90629	.768	.74193	1.

Conversion Table of Cotton Yarn Numbers

Spinning Frame Production

To find 100 per cent Production per Spindle, in Pounds, from Speed of Front Roll:

Circum. of

Front Roll x R. P. M. x Minutes x Hours

36 inches x 840 x No. of Yarn

Example:

$$\frac{3.1416 \times 90 \times 60 \times 54}{36 \times 840 \times 52}$$
 = .582 Lbs. per spindle.

Roving Frame Production

To find 100 per cent Production of Roving Frames, in Hanks, from Speed of Front Roll:

Circum. of Front Roll x R. P. M. x Minutes x Hours $\frac{\text{Hours}}{36 \text{ inches x 840}} = \text{Hanks per spindle.}$

Example: Assume speed of front roll 80 r. p. m. Assume Circum. of front roll 3.927 inches. 3.927 x 80 x 60 x 54

 $\frac{3.927 \times 80 \times 60 \times 54}{36 \times 840}$ = 33.66 Hanks per spindle.

Roving Table

For numbering by the weight, in grains, of 12 yards; and showing twist per inch

Weight (Grains)	Hank Roving	ಕ	Twist Per Inch	Weight (Grains)	Hank Roving	ot	Twist Per Inch	Weight (Grains)	Hank Roving	ŏ	Twist Per Inch
	- 12	Root	I I	·Ē	- 5	Reot	Ē	1 - 1		Root	Ĭ
후통	28	Square	4.2	1.55	7 25	Square	er e	ŧ5	22	Square	+ F
.j. =	Ta .	E 2	- 25 -	.a.	<u>=</u>	<u> </u>	- 2 2	- 5 E.	=	E D	-25
=	Ξ	- 7 .	É	=	Ξ	200	E	=	Ξ	Ī.	É
						1	1				-
400.00	.25	. 500	.60	147.06	.68	.825	. 99	81.97	1 99	1.105	1 99
	.26	.510	.61	144.93	.69	.831	1.00	80.65	$\frac{1.22}{1.24}$	1.114	
384.61	97	. 510		144.00					1.06		
370.37	.27	.520	.62	142.86	.70	.837	1.00	79.37	1.26	1.122	1.30
357.14	1.28	.529	.63	140.85	71	.843	1.01	78.12	1.28	1.131	1.30
344.83	.29	.539	.65	138.89	.72	.849	1.02	76.92	1.30	1.140	1.37
333.33	.30	.548	.66	135.99	. 73	.854	1.02	75.76	1.32	1.149	
322.58	.31	. 557	.67	135.14	.74	.860	1.03	74.63	1.34	1.158	
312.50	.32	. 566	.68	133.33	. 75	.866	1.04	73.53	1.36	1.166	1.40
303.03	. 33	.574	. 69	131.58	.76	.872	1.05	72.46	1.38	1.175	1.41
294.12	.34	. 583	.70	129.87	.77	.874	1.05	71.43	1.40	1.183	1.42
285.71	.35	. 592	.71	128.21	.78	.883	1.06	70.42	1.42	1.192	1.43
277.78	.36	.600	.72	126.58	. 79	.889	1.07	69.44	1.44	1.200	1.44
270.27	.37	.608	.73	125.00	.80	.894	1.07	68.49	1.46	-1.208	1.45
263.16	.38	.616	.74	123.46	.81	. 900	1.08	67.57	1.48	$1.217 \\ 1.225$	1.46
256.41	.39	. 624	. 75	121.95	.82	. 906	1.09	66.67	1.50	1.225	1,47
250.00	.40	.632	. 76	120.48	.83	.911	1.09	65.79	1.52	-1.233	1.48
243.90	.41	. 640	.77	119.05	.84	.917	1.10	64.94	1.54	1.241	1.49
238.10	.42	.648	.78	117.65	.85	.922	1.11	64.10	1.56	1.249	1.50
232 56	.43	.656	.79	116.28	.86	.927	1.11	63.29	1.58	1.257	1.51
$232.56 \\ 227.27$.44	.663	.80	114.94	.87	. 933	1.12	62.50	1.60	1.265	1.52
222.22	.45	.671	.80	113.64	.88	.938	1.13	61.73	1.62	1.273	1.53
217.39	.46	.678	.81	112.36	.89	.943	1.13	60.98	1.64	1.281	1.54
212.77	.47	.686	.82	111.11	.90	.949	1.14	60.24	1.66	1.288	1.55
208.33	.48	.693	.83	109.89	.91	.954	1.14	59.52	1.68	1.288 1.296	1 56
204.08	.49	.700	.84	108.70	.92	.959	1.15	58.82	$\hat{1.70}$	1.304	1.56
200.00	.50	.707	.85	107.53	.93	.964	1.16	58.14	1.72	1.311	1.57
196.08	.51	.714	86	106.38	.94	.970	1.16	57.47	$\tilde{1}.7\tilde{4}$	1.319	1.58
192.31	.52	.721	.87	105.26	.95	.975	1 17	56.82	1.76	1.327	1 59
188.68	.53	.728	.87	104.17	.96	.980	1.17 1.18	56.18	1.78	1.334	1 60
185.19	.54	.735	.88	103.09	. 97	.985	1.18	55.56	1.80	1.342	1.61
181.82	.55	.742	.89	102.04	.98	.990	$\begin{bmatrix} 1.10 \\ 1.19 \end{bmatrix}$	54.95	1.82	1.349	1 62
178.57	.56	.748	.90	101.01	.99	.995	1.19	54.35	1.84	1.356	
175.44	.57	.755	.91	100.00	1.00	1.000	1.20	53.76	1.86	1.364	
172.41	.58	.762	.91	98.04	1.02	1.010	1 21	53.19	1.88	1.371	
169.49	.59	.768	.92	96.15	1.04	1.020	1 22	52.63	1.90	1.378	1 65
166.67	.60	.775	.93	94.34	1.06	1.030	1.21 1.22 1.24	52.08	1.92	1.386	1.66
163.93	.61	.781	.94	92.59	1.08	1.039	1 25	51.55	1.94	1.393	1.67
161.29	$\frac{.61}{.62}$.787	$0.94 \\ 0.94$	90.91	1.10	1.039 1.049	$\begin{bmatrix} 1.25 \\ 1.26 \end{bmatrix}$	51.02	$1.94 \\ 1.96$	1.400	1 68
$151.29 \\ 158.73$.63	.794	.95	80.91	$1.10 \\ 1.12$	1.058	1.20	50.51	$\frac{1.90}{1.98}$	1.407	
156.75			.96	89.29 87.72	1.14	1.068	$\begin{bmatrix} 1.27 \\ 1.28 \end{bmatrix}$	50.00	$\frac{1.98}{2.00}$	1.414	
156.25	.64	.800		96 91	$1.14 \\ 1.16$	1.008 1.077	1.20	49.50	2.00	1.421	
153.85	.65	.806	$.97 \\ .97$	$86.21 \\ 84.75$	1.18	1.086	$\begin{bmatrix} 1.29 \\ 1.30 \end{bmatrix}$	$\frac{49.50}{49.02}$	$\substack{2.02\\2.04}$	1.421 1.428	
151.52	.66	.812 $.819$.97	83.33	$\frac{1.18}{1.20}$		$ \begin{array}{c c} 1.30 \\ 1.31 \end{array} $	$\frac{49.02}{48.54}$	$\frac{2.04}{2.06}$	1.428 1.435	
149.25	.67	.819	.98	80.55	1.20	1.095	1.51	45.04	2.00	1.400	1.12
						l	1				

Roving Table — (Concluded)

For numbering by the weight, in grains, of 12 yards; and showing twist per inch

_											
Weight (Grains)	дu	Root	Twist Per Inch	Weight (Grain)	Hank Roving	Root	Twist Per Inch	Weight (Grains)	Hank Roving	Square Root	Twist Per Inch
rair Tair	ık Roving	್ಪ≊	=	7.5	l vo	_ ~~	_E	t air	ovi	25	L
ξĝ	Hank Re	Square	Per	E 0	골	Square	<u> </u>	<u>5</u> 5	^놸 ద	310	e t
× e	Fai	n.	=	N _e	=	nbş	3	, se	Ta.	nby	3
	-						,			O.	
48.08	2.08	1.442	1.73	34.01	2.01	1.715	2.06	14.29	7.00	9 6 16	9 17
47.62	$\frac{2.08}{2.10}$	1.449	1.74	33.78	2.94 2.96 2.98	1.721	$\frac{2.06}{2.07}$	14.29	$\frac{7.00}{7.10}$	$\frac{2.646}{2.665}$	3 90
47.02	$\frac{5.10}{2.12}$	1.456	1.75	33.56	2 98	1.726	$\frac{2.07}{2.07}$	13.89	7.20	$\frac{2.683}{2.683}$	3 99
$\frac{1}{46.73}$	$\frac{5.12}{2.14}$	1.463	1.76	33.33	3.00	1 739	2.08	13.70	7.30	.) =0.0	9 01
46.30	2.16	1.470	1.76	32.26	3.10	$1.732 \\ 1.761$	2.11	13.51	7.40	2 720	3 26
45.87	2.18	1.476		31.25	3.20	1.789	$\frac{2.15}{2.15}$	13.33	7.50	$\frac{2.739}{2.739}$	3.29
45.45	2.20	1.483	1.78	$\frac{31.25}{30.30}$	3.30	$1.789 \\ 1.817$	$ \begin{array}{c} 2.11 \\ 2.15 \\ 2.18 \end{array} $	13.16	7.60	2.757	3.31
45.05	2.22	-1.490	1.79	29.41	3.40	1.844	2.21	12.99	7.70	2.775	3.33
44.64	2.24	-1.497	1.80	28.57	3.50	1.844 1.871	$\frac{2.21}{2.24}$	12.82	7.80	2.793	3.35
$\frac{44.64}{44.25}$	2.22 2.24 2.26	1.503		27.78	3.60	1.897 1.924	2.28	12.66	7.90	$egin{array}{c} 2.702 \\ 2.720 \\ 2.739 \\ 2.757 \\ 2.775 \\ 2.793 \\ 2.811 \\ 2.828 \\ 2.846 \end{array}$	3.37
-43.86	2.28	1.510	1.81	27.03	3.70	1.924	2.31	12.50	8.00	2.828	3.39
43.48	2.30	1.517	1.82	26.32	3.80	1.949	2.34	12.35	8.10	$\frac{2.846}{2.864}$	3.42
$\frac{43.10}{42.74}$	2.32	1.523	1.83	25.64	3.90	1.975	2.37	12.20	8.20	2.864	3.44
42.74	2.34	1.530	1.84	25.00	4.00	2.000	$\frac{2.40}{2.43}$	12.05	8.30	2.881	3.46
$\frac{42.37}{42.02}$	$\frac{2.36}{2.38}$	$\frac{1.536}{1.543}$	$\frac{1.84}{1.85}$	$24.39 \\ 23.81$	$\frac{4.10}{4.20}$	$\frac{2.025}{2.049}$	$\frac{2.43}{2.46}$	$\frac{11.90}{11.76}$	$8.40 \\ 8.50$	$\frac{2.898}{2.915}$	3.48
$\frac{42.02}{41.67}$	9 40	1.549	1.86	23 26	4.30	2.049	$\frac{2.40}{2.49}$	11.63	8.60	$\frac{2.915}{2.933}$	3 59 2 59
41.32	$\frac{2.40}{2.42}$	1.556	1.87	$23.26 \\ 22.73$	$\frac{4.30}{4.40}$	$\frac{2.074}{2.098}$	$\frac{2.49}{2.52}$	$11.03 \\ 11.49$	8.70	$\frac{2.955}{2.950}$	3 5.1
40.98	2 44	1.562	1.87	22 22	4.50	2 121	$\frac{2.55}{2.55}$	11.36	8.80	2.966	3.56
40.65	$\frac{2.44}{2.45}$	1.568	1.88	$\frac{22.22}{21.74}$	4.60	2.121 2.145 2.168 2.191 2.214 2.236 2.258 2.280 2.302	$\frac{2.55}{2.57}$	11.24	8.90	$\frac{2.966}{2.983}$	3.58
40.32	2.48	$\frac{1.568}{1.575}$	1.89	21.28	4.70	2.168	2.60	11.11	9.00	3.000	3.60
40.00	$\frac{2.48}{2.50}$	1.581	1.90	20.83	4.80	2.191	2.63	10.99	9.10	3.017	3.62
39.68	[2.52]	1.587	1.90	20.41	4.90	2.214	2.66	10.87	9.20	3.033	3.64
39.37	2.54	1.594	1.91	20.00	5.00	2.236	$\frac{2.68}{2.71}$	10.75	9.30	3.050	3.66
39.06	2.56	1.600	1.92	19.61	5.10	2.258	$\frac{2.71}{2}$	10.64	9.40	3.066	3.68
$\frac{38.76}{29.46}$	2.58	1.606	1.93	19.23	$5.20 \\ 5.30$	2.280	$\frac{2.74}{2.76}$	10.53	9.50	3.082	$\frac{3.70}{2.70}$
38.46	2.60	$\frac{1.612}{1.619}$	1.93	18.87	5.30	2.302	2.76	10.42	9.60	3.098	$\frac{3.72}{2.74}$
$\frac{38.17}{37.88}$	$2.62 \\ 2.64$	1.625	$\frac{1.94}{1.95}$	$\frac{18.52}{18.18}$	$5.40 \\ 5.50$	$2.324 \\ 2.345$	$\frac{2.76}{2.81}$	$\frac{10.31}{10.20}$	$\frac{9.70}{9.80}$	$\frac{3.114}{3.130}$	3.7 4 2.76
37.50	2 66	1.631	1.96	17.86	5.60	2 366	2.31	10.20	9.90	$\frac{3.130}{3.146}$	
37.88 37.59 37.31	$\frac{2.66}{2.68}$	1.637	1.96	17.54	5.70	2.387	$\frac{2.84}{2.86}$	10.10		$3.140 \\ 3.162$	$\frac{3.75}{3.79}$
37.04	[2.70]	1.643	1.97	$17.24 \\ 16.95$	5.80	2.366 2.387 2.408	$-2.89 \pm$		11.00	3.317	3.98
36.76	$\frac{2.72}{2.74}$	1.649	1.98	16.95	5.90	$2.429 \\ 2.449$	2.91		12.00	3.464	4.16
36.50	2.74	1.655	1.99	16.67	6.00	2.449	2.94	7.69	13.00	3.606	4.33
36.23	$\frac{2.76}{2.78}$	1.661	1.99	16.39	6.10	[2.470]	2.96	7.14	14.00	3.742	4.49
35.97	2.78	1.667	2.00	16.13	6.20	2.490	2.99	6.67	15.00	3.873	4.65
35.71	2.80	1.673	2.01	15.87	6.30	$\frac{2.510}{2.530}$	3.01	6.25	16.00	4.000	4.80
35.46	2.82	1.679	2.01	15.62	$\frac{6.40}{6.50}$	2.530	3.04	5.88	17.00	4.123	
$\frac{35.21}{24.07}$	2.84	1.685	$\frac{2.02}{2.02}$	15.38	$\frac{6.50}{6.60}$	$\frac{2.550}{2.500}$	3.06		18.00	4.243	
$\frac{34.97}{34.72}$	$\frac{2.86}{2.88}$	$1.691 \\ 1.697$	$\frac{2.03}{2.01}$	15.15	$\frac{6.60}{6.70}$	2.569	3.08		$\frac{19.00}{20.00}$	4.359	5.23
$\frac{34.72}{34.48}$	$\frac{2.88}{2.90}$	1.703	$\frac{2.04}{2.04}$	$\frac{14.93}{14.71}$	$\frac{6.70}{6.80}$	$2.588 \\ 2.608$	$\frac{3.11}{3.13}$	5.00	20.00	4.472	0.37
34.25	$\frac{2.90}{2.92}$	$\frac{1.703}{1.709}$	$\frac{2.04}{2.05}$	14.49	6.90	$\frac{2.608}{2.627}$	$\frac{3.15}{3.15}$		1		
31.20	0-	1.100	2.00	11.10	9.00	2.021	3.10		Ì		
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Yarn Organizations

Courtesy W. A. Graham Clark

ber	Yard	CA	RD	ŀR	AME	S	SLUBB	ER		Inte Media			FIN FRAN	E		JACI FRAM			PIN- ING
Yarn Number	Lap Ounce Per	Draft	Sliver	Sliver	Shver Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft
6 8 8 10 12 14 - 16 18 - 20 - 22 - 24 - 26 - 30 - 32 34 - 36 - 38 8 - 40 50 60 70	16 16 14 14 14 14 14 14 14 15 13 13 13 13 12 12 12 12 12 12 12 12 12 12 12 12 12	93 94 95 95 95 95 95 95 95 95 95 95 95 95 95	755 655 655 655 6565 6565 6565 657 650 600 600 600 500 500 500 500 500 500	75 75 65 65 65 65 65 65 65 65 65 6	.111 .111 .128 .128 .128 .128 .128 .128		3.6 4.5 3.9 4.7 3.9 4.7 3.9 3.9 3.9 3.9 3.9 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 3.6 4.7 4.7 3.6 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	.40 .50 .50 .50 .50 .50 .50 .50 .50 .50 .65 .50 .65 .50 .50 .50 .50 .50 .50 .50 .50 .50 .5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5. 5. 5. 3. 4. 4. 4. 5. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	1.00 1.25 1.33 1.60 1.00 1.00 1.80 1.00 1.00 1.33 1.00 1.33 1.00 1.33 1.80 1.33 1.80 1.33 1.80 1.33 1.80 1.33 1.80 1.33	1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	5. 	2.50 2.50 2.50 3.00 2.50 3.00 2.50 4.00 2.50 4.00 3.50 5.50 3.50 5.50 4.00 2.50 4.00 2.50 4.00 2.50 4.00 3.50 4.00 4.00 3.50 4.00 4.00 3.50 4.00		5.2 6.4 6.7 6.0 6.2	6.5 8.0 10.	1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	6. 6.4 7.5 9.6 8.8 11.2 8.0 10.0 8.0 11.0 8.0 11.6 8.0 10.2 8.6 10.9 8.6 11.9 10.9 11.6 10.9 11.6 10.0 11.0 10.0
80 90 100 110 120	12 12 12 11 11	- - 137	45 45 45 35 35	$\frac{60}{60}$.139 .139 .139 .167 .167	1 1 1 1 1	4.7 4.7 4.7 4.8 4.8	. 65 . 65 . 65 . 80 . 80	2 2 2 2	$5.5 \\ 5.5 \\ 5.5$	1.80 1.80 1.80 2.25 2.25	2 2 2 2	5.6 6.1 6.4 6.		2 2 2 2 2	6.4 6.5 7.0 6.5 7.1	18. 20. 22.	$\frac{2}{2}$	10.0 10.0 10.0 10.0 10.0

Square Root of the Numbers or Counts, from One to Two Hundred Hanks in the Pound, with the Twist per Inch for Different Kinds of Yarns

The heavy figures opposite No. 1 show the multipliers for the square root of all numbers throughout the tables.

Counts or Numbers	Square Root	Ordinary Warp Twists	Extra Mule Twist	Mule Twists	Weft Twist	Twist for Doubling	Hosiery Yarn
1	1.00	4.75	4.20	3.75	3.25	2.75	2.50
•)	1.41	6.72	5.65	5.30	4.60	3.88	3.53
$\frac{2}{3}$	1.73	8.23	$\frac{5.05}{6.92}$	6.49	$\frac{1.60}{5.62}$	4.76	4.33
4	$\frac{1.73}{2.00}$	9.50	8.00	7.50	6.50	5.50	$\frac{1.00}{5.00}$
5	$\frac{2.00}{2.23}$	$\frac{9.50}{10.62}$	8.94	8.37	$\frac{0.36}{7.26}$	6.14	5.59
8	$\frac{2.23}{2.44}$	11.64	9.79	9.18	7.96	6.73	$\frac{3.33}{6.12}$
$\frac{6}{7}$	$\frac{2.44}{2.64}$	12.57	10.58	9.92	8.59	7.27	6.61
8	$\frac{2.04}{2.82}$	13.44	11.31	10.50	9.19	7.77	7.07
9	3.00	$13.44 \\ 14.25$	12.00	11.25	9.75	8.25	7.50
10	$\frac{3.00}{3.16}$	15.02	12.64	11.85	10.27	8.79	7.90
10	$\frac{3.10}{3.31}$	$15.02 \\ 15.75$	13.26	12.43	10.77	9.12	$\frac{7.90}{8.29}$
12	3.46	16.45	$\frac{13.20}{13.85}$	$\frac{12.43}{12.99}$	$10.77 \\ 11.25$	$9.12 \\ 9.52$	8.66
			$13.85 \\ 14.96$	$12.99 \\ 14.03$	12.16	$\frac{9.32}{10.28}$	9.35
14	$\frac{3.74}{4.00}$	$\begin{array}{c} 17.77 \\ 19.00 \end{array}$	$\frac{14.90}{16.00}$	15.00	13.10	11.00	10.00
16	$\frac{4.00}{4.24}$	$\frac{19.00}{20.15}$	$\frac{16.00}{16.97}$	$15.00 \\ 15.90$	$\frac{13.00}{13.78}$	11.66	10.60
18			$\frac{10.97}{17.88}$	16.77	14.53	12.29	11.18
20	4.47	21.24			$14.55 \\ 15.24$	$12.29 \\ 12.89$	11,18
22	$\frac{4.69}{1.00}$	22.28	18.76	17.58		$12.89 \\ 13.47$	
24	$\frac{4.89}{1.89}$	23.27	$\frac{19.59}{20.20}$	18.37	15.92		
26	5.09	24.22	20.39	19.11	16.57	14.02	
28	5.29	25.13	21.16	19.84	17.19	14.55	
30	5.47	26.02	21.90	20.53	17.80	15.06	
35	5.91	28.10	23.66	22.18	19.22	16.27	
40	6.32	30.04	25.29	23.71	20.55	17.39	
$\frac{45}{25}$	6.70	31.86	26.83	25.15	21.80	18.44	
50	7.07	33.59	28.28	$\frac{26.51}{27.01}$	22.98	19.44	
55	7.41	35.23	29.66	27.81	24.10	20.39	
60	7.74	36.79	30.98	29.04	25.17	21.30	
65	8.06	38.30	32.24	30.23	26.20	22.17	
70	8.36	39.74	33.46	31.37	$\frac{27.19}{20.14}$	23.00	
75	8.66	41.14	34.64	32.47	28.14	23.81	
80	8.94	42.49	35.77	33.54	29.06	24.59	-
85	9.21	43.79	36.87	34.57	29.96	25.35	
90	9.48	45.06	37.94	35.47	30.83	26.08	
95	9.74	46.30	38.98	36.55	31.67	26.80	
100	10.00	47.50	40.00	37.50	32.50	27.50	
110	10.48	49.82	41.95	39.33	34.08	28.84	
120	10.95	52.03	43.81	41.07	35.60	30.12	
130	11.40	54.16	45.60	42.75	37.05	31.35	
140	11.83	56.20	47.32	44.37	38.47	32.54	
150	12.24	58.04	48.98	45.92	39.80	33.68	
160	12.64	60.04	50.59	47.43	41.10	34.78	
170	13.03	61.89	52.15	48.89	42.37	35.85	
180	13.41	63.70	53.66	50.31	43.60	36.89	
190	13.78	65.46	55.13	51.69	44.79	37.90	
200	14.14	67.17	56.56	53.03	45.96	38.89	1

Yarn Table For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

12)		120		120		120		120	
Yar Is	Number	Yards	Number	Yards	Number	Yards	Number	120 Yards	Number
Weight	of Yarn	Weight	of Yarn	Weight	of Yarn	Weight	of Yarn	Weight	of Yarn
(Grains)		(Grains)		(Grains)		(Grains)		(Grains)	
_		-	<u> </u>		i	l	1		1
1.	1.000.	.3	81.30	. 6	56.82	0	43.67	9	95 46
						.9		.2	35.46
$\frac{2}{5}$.	500.	. 4	80.65	.7	56.50	23.	43.48	.3	35.34
3.	333.3	. 5	80.00	.8	56.18	.1	43.29	.4	35.21
4.	250.0	, 6	79.37	. 9	55.87	.2	43.10	. 5	35.09
5.	200.0	.7	78.74	18.	55.56	.3	42.92	.6	34.97
5.5	181.8	.8	78.12	. 1	55.25	.4	42.74	.7	34.84
6.	166.7	. 9	77.52	.2	54.95	. 5	42.55	.s	34.72
6.5	153.8	13.	76.92	.3	54.64	.6	42.37	.9	34.60
7.	142.9	10.	76.34	.4	54.35	.7	42.19	29.	34.48
7.5	133.3	.2	75.76	.5	54.05	.8	42.02	.1	34.36
8.	125.0	.3	75.19	. 6	53.76	. 9	41.84	.2	34.25
. 1	123.5	.4	74.63	. 7	53.48	24.	41.67	.3	34.13
. 2	122.0	.5	74.07	.8	53.19	.1	41.49	. 4	34.01
. 3	120.5	. 6	73.53	. 9	52.91	.2	41.32	. 5	33.90
. 4	119.0	.7	72.99	19.	52.63	.3	41.15	. 6	33.78
$\dot{\hat{5}}$	117.6	.8	72.46	.1	52.36	.4	40.98	.7	33.67
				.2					
. 6	116.3	1.9	71.94		52.08	.5	40.82	.8	33.56
. 7	114.9	14.	71.43	.3	51.81	, 6	40.65	. 9	33.44
.8	113.6	. 1	70.92	. 4	51.55	. 7	40.49	30.	33.33
. 9	112.4	.2	70.42	. 5	51.28	.8	40.32	. 1	33.22
9.	111.1	.3	69.93	.6	51.02	. 9	40.16	.2	33.11
. 1	109.9	. 4	69.44	.7	50.76	25.	40.00	.3	33.00
$\dot{2}$	108.7	.5	68.97	.8	50.51	.1	39.84	.4	32.89
.3	107.5	.6	68.49	.9	50.25	$\hat{2}$	39.68	.5	32.79
.4	106.4	.7	68.03	20.	50.20	.3	39.53		
			03.03					.6	32.68
. 5	105.3	.8	67.57	.1	49.75	.4	39.37	.7	32.57
. 6	104.2	9	67.11	.2	49.50	. 5	39.22	.8	32.47
. 7	103.1	15.	66.67	.3	49.26	.6	39.06	.9	32.36
.8	102.0	.1	66.23	. 4	49.02	.7	38.91	31.	32.26
. 9	101.0	.2	65.79	.5	48.78	.8	38.76	. 1	32.16
10.	100.0	.3	65.36	, 6	48.54	.9	38.61	.2	32.05
.1	99.01	.4	64.94	.7	48.31	26.	38.46	.3	31.95
$\dot{\hat{2}}$	98.04	$.\overline{5}$	64.52	.8	48.08	.1	38.31	.4	31.85
$\frac{12}{3}$	97.09	.6	64.10		47.85	$\frac{1}{2}$	38.17		
				.9				.5	$\frac{31.75}{21.25}$
. 4	96.15	.7	63.69	21.	47.62	.3	38.02	.6	31.65
. 5	95.24	.8	63.29	. 1	47.33	.4	37.88	.7	31.55
. 6	94.34	. 9	62.89	.2	47.17	. 5	37.74	.8	31.45
. 7	93.46	16.	62.50	.3	46.95	. 6	37.59	. 9	31.35
.8	92.59	. 1	62.11	.4	46.73	.7	37.45	32.	31.25
. 9	91.74	.2	61.73	. 5	46.51	.8	37.31	.1	31.15
11.	90.91	.3	61.35	.6	46.30	.9	37.17	.2	31.06
.1	90.09	.4	60.98	.7	46.08	27.	37.04	.3	30.96
$\stackrel{\cdot}{.}\stackrel{\cdot}{2}$	89.29	.5	60.61	.8	$\frac{40.03}{45.87}$		36.90		
.3			$\frac{60.01}{60.24}$.1		.4	30.86
	88.50	.6		.9	45.66	.2	36.77	.5	$\frac{30.77}{20.67}$
. 4	87.72	.7	59.88	22.	45.45	.3	36.63	. 6	30.67
. 5	86.96	.8	59.52	. 1	45.25	. 4	36.50	.7	30.58
.6	86.21	.9	59.17	.2	45.05	. 5	36.36	.8	30.49
.7	85.47	17.	58.82	.3	44.84	.6	36.23	. 9	30.40
.8	84.75	.1	58.48	.4	44.64	.7	36.10	33.	30.30
$\ddot{9}$	84.03	$\begin{vmatrix} & \vdots \\ 2 & \end{vmatrix}$	58.14	$\hat{5}$	44.44	.8	35.97	.1	30.21
12.	83.33	.3	57.80	.6	44.25	.9	35.84	.2	$\frac{30.21}{30.12}$
.1	82.64	.4		.7	$\frac{44.25}{44.05}$	28.	$35.34 \\ 35.71$		
			57.47					.3	30.03
.2	81.97	. 5	57.14	.8	43.86	.1	35.59	. 4	20.04
		1	1	1		l	1		

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarr
. 5	29.85	.8	25.77	. 1	22.68	. 4	20.24	.7	18.28
. 6	29.76	.9	25.71	.2	22.62	. 5	20.20	.8	18.25
.7	29.67	39.	25.64	.3	22.57	.6	20.16	. 9	18.21
.8	$29.59 \\ 29.50$.1	$25.58 \\ 25.51$.4	22.52 22.47	.7 .8	$\frac{20.12}{20.08}$	55.	18.18 18.15
34.	$\frac{29.30}{29.41}$.3	25.45	.6	22.42	.9	$\frac{20.03}{20.04}$	$\cdot \cdot $	18.12
.1	29.33	.4	25.38	.7	22.37	50.	$\frac{20.00}{20.00}$.3	18.08
.2	29.24	. 5	25.32	.8	22.32	. 1	19.96	.4	18.05
. 3	29.15	. 6	25.25	9	22.27	.2	19.92	. 5	18.02
. 4	29.07	.7	25.19	45.	22.22	.3	19.88	. 6	17.99
$\cdot 5$	$\frac{28.99}{99.00}$.8	25.13	.1	22.17	. 4	19.84	.7	17.95
.6	$\frac{28.90}{28.82}$	40.	25.06 25.00	.2	$\frac{22.12}{22.08}$.5	$\frac{19.80}{19.76}$.8	17.92 17.89
.8	$\frac{28.84}{28.74}$.1	$\frac{23.00}{24.94}$. 4	$\frac{22.03}{22.03}$.7	$\frac{19.70}{19.72}$	56.	17.86
.9	$\frac{28.65}{28.65}$.2	24.88	.5	$\frac{21.03}{21.98}$.8	19.69	.1	17.83
35.	$\frac{28.57}{28.57}$.3	24.81	.6	21.93	9	19.65	.2	17.79
. 1	28.49	. 4	24.75	. 7	21.88	51.	19.61	.3	17.76
.2	28.41	. 5	24.69	.8	21.83	. 1	19.57	. 4	17.73
.3	28.33	. 6	24.63	. 9	21.79	\cdot . 2	19.53	. 5	17.70
. 4	28.25	.7	24.57	46.	$\frac{21.74}{21.00}$.3	19.49	. 6	17.67
. 5	$\frac{28.17}{28.00}$.8	24.51	.1	$\frac{21.69}{65}$.4	19.46	.7	17.64
$\begin{bmatrix} .6 \\ .7 \end{bmatrix}$	$\frac{28.09}{28.01}$	41.	$24.45 \\ 24.39$.2	$\frac{21.65}{21.60}$.5	$19.42 \\ 19.38$.8	$\begin{bmatrix} 17.61 \\ 17.57 \end{bmatrix}$
.8	$\frac{23.01}{27.93}$.1	24.33	.4	21.55	.7	19.34	57.	17.54
.9	27.86	$\stackrel{\cdot 1}{.2}$	$\frac{24.35}{24.27}$.5	$\frac{21.50}{21.51}$.8	19.31	.1	17.51
36.	27.78	.3	24.21	.6	21.46	.9	19.27	.2	17.48
. 1	27.70	. 4	24.15	. 7	21.41	52.	19.23	.3	17.45
.2	27.62	. 5	24.10	.8	21.37	. 1	19.19	.4	17.42
	$\frac{27.55}{17}$.6	24.04	.9	21.32	.2	19.16	.5	17.39
.4	$\frac{27.47}{27.10}$.7	23.98	47.	$\frac{21.28}{21.23}$.3	19.12	.6	17.36
$\begin{array}{c c} .5 \\ .6 \end{array}$	$\begin{array}{c} 27.40 \\ 27.32 \end{array}$.8	$\begin{bmatrix} 23.92 \\ 23.87 \end{bmatrix}$	$\begin{array}{c} .1 \\ .2 \end{array}$	$\frac{21.23}{21.19}$.4	$19.08 \\ 19.05$.7 .8	17.33 17.30
.7	$\frac{27.32}{27.25}$	42.	23.81	.3	$\frac{21.13}{21.14}$.6	19.03	.9	17.27
.8	27.17	.1	23.75	.4	$\frac{21.11}{21.10}$.7	18.98	58.	17.24
. 9	27.10	.2	23.70	. 5	21.05	.8	18.94	.1	17.21
37.	27.03	.3	23.64	. 6	21.01	.9	18.90	.2	17.18
. 1	26.95	.4	23.58	. 7	20.96	53.	18.87	.3	17.15
$\frac{.2}{.3}$	26.88	. 5	23.53	.8	$\frac{20.92}{20.93}$.1	18.83	.4	17.12
	26.81	$\frac{.6}{.7}$	$\begin{bmatrix} 23.47 \\ 23.42 \end{bmatrix}$.9	$\frac{20.88}{20.82}$	$\frac{.2}{.3}$	18.80	. 5	17.09
.4	$\begin{bmatrix} 26.74 \\ 26.67 \end{bmatrix}$.8	$\begin{bmatrix} 23.42 \\ 23.36 \end{bmatrix}$	48.	$\frac{20.83}{20.79}$.3	$\begin{bmatrix} 18.76 \\ 18.73 \end{bmatrix}$.6	$ \begin{array}{c} 17.00 \\ 17.04 \end{array}$
.6	26.60	.9	$\begin{bmatrix} 23.30 \\ 23.31 \end{bmatrix}$	$\frac{1}{2}$	$\frac{20.15}{20.75}$.5	18.69	.8	17.01
.7	$\frac{26.53}{26.53}$	43.	$\frac{23.31}{23.26}$.3	$\frac{20.70}{20.70}$. 6	18.66	.9	16.98
.8	26.46	.1	23.20	.4	20.66	.7	18.62	59.	16.95
. 9	26.39	.2	23.15	.5	20.62	.8	18.59	. 1	16.92
38.	26.32	.3	23.09	. 6	20.57	9	18.55	.2	16.89
.1	26.25	.4	23.04	.7	$\frac{20.53}{100.40}$	54.	18.52	.3	16.86
.2	$\frac{26.18}{26.11}$.5	$\frac{22.99}{22.94}$	$\begin{bmatrix} .8 \\ .9 \end{bmatrix}$	$\frac{20.49}{20.45}$	$\frac{\cdot 1}{\cdot 2}$	18.48 18.45	.4	$ \begin{array}{c} 16.84 \\ 16.81 \end{array}$
.4	$\frac{26.11}{26.04}$.6	$\frac{22.94}{22.88}$	49.	$\begin{array}{c} 20.45 \\ 20.41 \end{array}$.3	$\frac{18.45}{18.42}$	$\frac{.5}{.6}$	16.81
.5	$\frac{20.04}{25.97}$.8	22.83	.1	$\frac{20.41}{20.37}$.4	18.38	.7	16.75
.6	$\frac{25.31}{25.91}$.9	22.78	.2	$\frac{20.31}{20.33}$.5	18.35	.8	16.72
.7	25.84	44.	$\frac{22.73}{2}$.3	20.28	.6	18.32	.9	16.69

Yarn Table — (Continued)
For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

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Yards Weight (Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
60.	16.67	. 3	15.31	. 6	14.16	. 9	13.18	.2	12.32
. 1	16.64	.4	15.29	. 7	14.14	76.	13.16	.3	12.30
$\cdot \cdot \cdot \cdot \cdot \cdot = \cdot	16.61	.5	15.27	.8	14.12	.1	13.14	. 4	12.29
.3	16.58	.6	15.24	. 9	14.10	. 2	13.12	. 5	12.27
. 4	16.56	.7	15.22	71.	14.08	.3	13.11	. 6	12.25
. 5	16.53	.8	15.20	. 1	14.06	. 4	13.09	.7	12.24
. 6	16.50	. 9	15.17	.2	14.04	. 5	13.07	.8	12.22
.7	16.47	66.	15.15	.3	14.03	.6	13.05	. 9	12.21
.8	16.45	.1	15.13	.4	14.01	. 7	13.04	82.	12.20
.9	16.42	.2	15.11	. 5	13.99	.8	13.02	. 1	12.18
61.	16.39	. 3	15.08	. 6	13.97	. 9	13.00	.2	12.17
.1	16.37	. 4	15.06	. 7	13.95	77.	12.99	.2	12.15
.2	16.34	.5	15.04	.8	13.93	. 1	12.97	. 4	12.14
. 3	16.31	. 6	15.02	. 9	13.91	.2	12.95	. 5	12.12
.4	16.29	. 7	14.99	72.	13.89	.3	12.94	. 6	12.11
. 5	16.26	.8	14.97	.1	13.87	. 4	12.92	. 7	12.09
. 6	16.23	. 9	14.95	.2	13.85	. 5	12.90	.8	12.08
.7	16.21	67.	14.93	.3	13.83	. 6	12.89	. 9	12.06
.8	16.19	. 1	14.90	.4	13.81	. 7	12.87	83.	12.05
. 9	16.16	.2	14.88	.5	13.79	.8	12.85	.1	12.03
62.	16.13	.3	14.86	.6	13.77	. 9	12.84	.2	12.02
.1	16.10	.4	14.84	.7	13.76	78.	12.82	.3	12.00
.2	16.08	. 5	14.81	.8	13.74	.1	12.80	. 4	11.99
.3	16.05	. 6	14.79	.9	$\frac{13.72}{12.70}$.2	$\frac{12.79}{19.77}$.5	11.98
. 4	16.03	.7	14.77	73.	13.70	. 3	$\frac{12.77}{10.76}$.6	11.96
. 5	16.00	.8	14.75	.1	13.68	. 4	12.76	.7	11.95 11.93
. 6	15.97	.9	14.73	.2	13.66	.5	12.74	.8	11.93 11.92
.7 .8	15.95	68.	14.71	.3	$13.64 \\ 13.62$	$\frac{.6}{.7}$	$12.72 \\ 12.71$	84.	11.90
.8	$15.92 \\ 15.90$	$\frac{\cdot 1}{\cdot 2}$	$14.68 \\ 14.66$. 4	13.61	.8	$12.71 \\ 12.69$.1	11.89
. 9 63.	15.80 15.87	.3	14.64	. 5 . 6	13.59	.9	$\frac{12.69}{12.67}$	$\cdot \cdot $	11.88
.1	15.85	.3	14.62	.7	13.59 13.57	79.	12.66	.3	11.86
.2	15.83	.5	14.60	.8	13.57 13.55	.1	12.64	.4	11.85
.3	15.80	.6	14.58	.9	13.53	.2	12.63	.5	11.83
.4	15.77	.7	14.56	74.	13.51	.3	12.61		11.82
$.\overline{5}$	15.75	.8	14.53	.1	13.50	.4	12.59	567	11.81
.6	15.72	.9	14.51	,2	13.48	. 5	12.58	.8	11.79
.7	$\tilde{15}.\tilde{70}$	69.	14.49	.3	13.46	* .6	12.56	.9	11.78
.8	15.67	.1	14.47	. 4	13.44	.7	12.55	85.	11.76
. 9	15.65	.2	14.45	. 5	13.42	.8	12.53	. 1	11.75
64.	15.62	.3	14.43	. 6	13.40	. 9	12.52	.2	11.74
. 1	15.60	.4	14.41	.7	13.39	80.	12.50	. 3	11.72
.2	15.58	.5	14.39	.8	13.37	. 1	12.48	. 4	11.71
.3	15.55	.6	14.37	. 9	13.35	.2	12.47	. 5	11.70
.4	15.53	.7	14.35	75.	13.33	. 3	12.45	.6	11.68
. 5	15.50	.8	14.33	. 1	13.32	. 4	12.44	.7	11.67
. 6	15.48	. 9	14.31	.2	13.30	. 5	12.42	.8	11.66
.7	15.46	70.	14.29	.3	13.28	.6	12.41	.9	11.64
.8	15.43	.1	14.27	. 4	13.26	.7	12.39	86.	11.63
. 9	15.41	.2	14.25	. 5	13.25	.8	12.38	.1	11.61
65.	15.38	.3	14.22	. 6	13.23	.9	12.36	.2	11.60
. 1	15.36	.4	14.20	.7	13.21	81.	12.35	.3	$11.59 \\ 11.57$
.2	15.34	.5	14.18	.8	13.19	.1	12.33	.4	11.57
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Yarn Table — (Continued)
For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	129 Yards Weight (Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarn
. 5	11,56	.8	10.89	.1	10.30	. 4	9.77	. 7	9.29
. 6	11.55	. 9	10.88	. 2	10.29	. 5	9.76	.8	9.28
. 7	11.53	92.	10.87	.3	10.28	. 6	9.75	. 9	9.27
.8	11.52	. 1	10.86	. 4	10.27	. 7	9.74	108.	-9.26
. 9	11.51	.2	10.85	, 5	10.26	.8	9.73	. 1	-9.25
87.	11.49	. 3	10.83	. 6	10.25	. 9	9.72	.2	9.24
.1	11.48	. 4	10.82	.7	10.24	103.	9.71	. 3	9.23
.2	11.47	.5	10.81	.8	10.22	.1	9.70	. 4	9.23
. 3	11.45	.6	$10.80 \\ 10.79$.9	$10.21 \\ 10.20$.2	9.69	. 5	$9.22 \\ 9.21$
.4	$\frac{11.44}{11.43}$.7		98.	10.20 10.19	4	$9.68 \\ 9.67$.6	9.21 9.20
. 5 . 6	11.43	.9	$\begin{bmatrix} 10.78 \\ 10.76 \end{bmatrix}$.1	10.19	.5	9.66	.8	9.10
.7	11.42	93.	$\frac{10.76}{10.75}$.3	10.13	.6	9.65	.9	9.18
.8	11.39	.1	10.74	.4	10.16	.7	9.64	109.	9.17
.9	11.38	.2	10.73	.5	10.15	.8	9.63	.2	9.16
88.	11.36	.3	10.72	. 6	10.14	.9	9.62	.4	9.14
. 1	11.35	.4	10.71	. 7	10.13	104.	9.62	. 6	9.12
.2	11.34	.5	10.70	.8	10.12	. 1	9.61	.8	9.11
. 3	11.33	.6	10.68	. 9	10.11	.2	9.60	110.	9.09
. 4	11.31	. 7	10.67	99.	10.10	. 3	9.59	.2	9.07
. 5	11.30	.8	10.66	. 1	10.09	. 4	9.58	.4	9.06
. 6	11.29	. 9	10.65	.2	10.08	. 5	9.57	. 6	9.04
.7	11.27	94.	10.64	.3	10.07	. 6	9.56	.8	9.03
.8	11.26	.1	10.63	. 4	10.06	.7	9.55	111.	9.01
.9	11.25	.2	10.62	.5	10.05	.8	9.54	.2	8.99
89.	11.24	.3	10.60	. 6	10.04	. 9	9.53	.4	8.98
.1	11.22	.4	10.59	.7	10.03	105.	9.52	.6	8.96
$\frac{.2}{.3}$	$\frac{11.21}{11.20}$. 5	10.58	.8	10.02	.1	9.51	8.	$8.94 \\ 8.93$
.4	$\frac{11.20}{11.19}$.6	$10.57 \\ 10.56$	100.	$\frac{10.01}{10.00}$	$\frac{.2}{.3}$	$9.51 \\ 9.50$	$\frac{112}{.2}$	8.91
.5	11.19	.8	10.50 10.55	.1	9.99	.4	9.49	4	8.90
.6	11.16	.9	10.54	.2	9.98	1 .5	9.48	6.	8.88
.7	11.15	95.	10.53	, 3	9.97	.6	9.47	.8	8.87
.8	11.14	.1	10.52	.4	9.96	.7	9.46	113.	8.85
.9	11.12	$\hat{\cdot}\hat{2}$	10.50	.5	9.95	.8	9.45	.2	8.83
90.	110-11	.3	10.49	.6	9.94	.9	9.44	.4	8.82
.1	11.10	.4	10.48	. 7	9.93	106.	9.43	. 6	8.80
.2	11.09	.5	10.47	.8	9.92	. 1	9.43	.8	8.79
.3	11.07	.6	10.46	.9	9.91	.2	9.42	114.	-8.77
. 4	11.06	. 7	10.45	101.	9.90	.3	9.41	.2	8.76
. 5	11.05	.8	10.44	. 1	9.89	. 4	9.40	. 4	8.74
. 6	11.04	. 9	10.43	.2	9.88	. 5	9.39	. 6	8.73
.7	11.03	96.	10.42	.3	9.87	. 6	9.38	.8	8.71
.8	11.01	.1	10.41	. 4	9.86	.7	9.37	115.	8.70
.9	11.00	.2	10.40	. 5	9.85	.8	9.36	.2	8.68
91.	10.99	.3	10.38	.6	$\frac{9.84}{0.82}$	107.9	$\frac{9.35}{0.35}$.4	8.67
$\frac{.1}{.2}$	$\frac{10.98}{10.96}$.4	$10.37 \\ 10.36$.8	$9.83 \\ 9.82$	107.	$9.35 \\ 9.34$. 6 . 8	$\begin{bmatrix} 8.65 \\ 8.64 \end{bmatrix}$
.3	$\frac{10.90}{10.95}$.6	$10.36 \\ 10.35$.8	$9.82 \\ 9.81$.2	$9.34 \\ 9.33$	116.	8.62
.4	$10.93 \\ 10.94$.7	$10.33 \\ 10.34$	102.	$\frac{9.81}{9.80}$.3	9.33	.2	8.61
.5	10.93	.8	10.33	.1	9.79	.4	9.31	. 4	8.59
.6	10.92	.9	10.32	2	9.78	.5	9.30	.6	8.58
.7	10.91	97.	10.31	.3	9.78		9.29	.š	8.56

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	12) Yards Weight (Grains)	Number of Yarn	12) Yards Weight (Grains)	Number of Yarn	12") Yards Weight (Grains)	Number of Yarn
117.	8.55	. 5	7.33	163.	6.13	209.	4.78	274.	3.65
.2	8.53	137.	7.30	. 5	6.12	210.	4.76	276.	3.62
. 4	8.52	. 5	7.27	164.	6.10	211.	4.74	278.	3.60
.6	8.50	138.	7.25	. 5	6.08	212.	4.72	280.	3.57
.8	8.49	.5	7.22	165.	6.06	213.	4.69	282.	3.55
118.	8.47	139.	7.19	.5	6.04	214.	4.67	284.	3.52
$\frac{.2}{.4}$	8.46	.5	7.17	166.	$\frac{6.02}{6.01}$	$215. \\ 216.$	$\frac{4.65}{4.63}$	$286. \\ 288.$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
.6	$8.45 \\ 8.43$	140.	$7.14 \\ 7.12$	$\frac{.5}{167}$.	$\frac{0.01}{5.99}$	$\frac{210}{217}$.	4.61	288. 290.	$\frac{3.47}{3.45}$
.8	8.42	141.	7.09	.5	5.97	$\frac{217}{218}$.	4.59	$\frac{290}{292}$.	$\frac{3.40}{3.42}$
119.	8.40	.5	7.07	168.	5.95	219.	$\frac{1.55}{4.57}$	$\frac{597}{294}$.	3.40
.2	8.39	142.	7.04	. 5	5.93	220.	4.55	296.	3.33
. 4	8.38	. 5	7.02	169.	5.92	221.	4.52	298.	3.36
. 6	8.36	143.	6.99	. 5	5.90	222.	4.50	300.	3.33
.8	8.35	.5	6.97	170.	5.88	223.	4.48	302.	3.31
120.	8.33	144.	[-6.94]	171.	5.85	224.	4.46	304.	3.29
.2	8.32	.5	6.92	172.	5.81	225.	4.44	306.	3.27
.4	$\frac{8.31}{8.29}$	145.	$\begin{bmatrix} 6.90 \\ 6.87 \end{bmatrix}$	173. 174.	$5.78 \\ 5.75$	$\frac{226}{227}$.	4.42 4.41	$\frac{308}{310}$.	$\frac{3.25}{3.23}$
$\begin{bmatrix} .6 \\ .8 \end{bmatrix}$	$\frac{8.29}{8.28}$	146.	$\begin{bmatrix} 0.87 \\ 6.85 \end{bmatrix}$	175.	$\frac{5.75}{5.71}$	$\frac{227}{228}$.	4.39	312.	$\frac{3.23}{3.21}$
121.	8.26	. 5	$\begin{bmatrix} 0.83 \\ 6.83 \end{bmatrix}$	176.	5.68	$\frac{229}{229}$.	$\frac{4.35}{4.37}$	314.	$\frac{3.21}{3.18}$
.4	8.24	147.	6.80	177.	5.65	$\frac{220}{230}$.	$\frac{1.35}{4.35}$	316.	3.17
. 6	$8.\overline{22}$.5	6.78	178.	5.62	231.	4.33	318.	3.14
.8	8.21	148.	6.76	179.	5.59	232.	4.31	320.	3.12
122.	8.20	. 5	6.73	180.	5.56	233.	4.29	322.	3.11
. 5	8.16	149.	6.71	181.	5.52	234.	4.27	324.	3.09
123.	8.13	. 5	6.69	182.	5.49	235.	4.26	326.	3.07
.5	8.10	150.	6.67	183.	5.46	236.	4.24	328.	$\frac{3.05}{0.00}$
124.	8.06	.5	6.64	184.	5.43	237.	4.22	330.	3.03
$\frac{.5}{125}$.	$\frac{8.03}{8.00}$	151.	$\frac{6.62}{6.60}$	185. 186.	$\frac{5.41}{5.38}$	$\frac{238}{239}$.	$\frac{4.20}{4.18}$	332. $334.$	$\begin{bmatrix} 3.01 \\ 2.99 \end{bmatrix}$
.5	$\frac{3.00}{7.97}$	152.	$\frac{6.58}{6.58}$	187.	5.35	$\frac{239}{240}$.	4.17	$\frac{334.}{336.}$	$\frac{2.98}{2.98}$
126.	7.94	.5	6.56	188.	5.32	$\frac{240.}{241.}$	$\frac{1}{4.15}$	338.	$\frac{2.96}{2.96}$
.5	7.91	153.	6.54	189.	5.29	242.	4.13	340.	2.94
127.	7.87	. 5	6.51	190.	5.26	243.	4.12	342.	2.92
. 5	7.84	154.	6.49	191.	5.24	244.	4.10	344.	2.91
128.	7.81	. 5	6.47	192.	5.21	245.	4.08	346.	2.89
.5	7.78	155.	[-6.45]	193.	5.18	246.	4.07	348.	2.87
129.	7.75	.5	6.43	194.	5.15	247.	4.05	350.	2.86
120.5	$\frac{7.72}{7.60}$	156.	$\begin{bmatrix} 6.41 \\ 6.20 \end{bmatrix}$	195.	5.13	$248. \\ 249.$	$\frac{4.03}{4.02}$	$352. \\ 354.$	$2.84 \\ 2.82$
130.	$\frac{7.69}{7.66}$.5	$6.39 \\ 6.36$	196.	$\begin{bmatrix} 5.10 \\ 5.08 \end{bmatrix}$	$\frac{249}{250}$.	$\begin{bmatrix} 4.02 \\ 4.00 \end{bmatrix}$	356.	$\frac{2.82}{2.81}$
$\frac{.5}{131.}$	$\frac{7.60}{7.63}$	$\frac{157}{.5}$	$\begin{bmatrix} 0.30 \\ 6.35 \end{bmatrix}$	198.	$\frac{5.08}{5.05}$	250.	$\begin{bmatrix} 4.00 \\ 3.97 \end{bmatrix}$	358.	$\frac{2.31}{2.79}$
.5	7.60	158.	6.33	199.	5.03	254.	3.94	360.	$\frac{2.78}{2.78}$
132.	7.58	.5	6.31	200.	5.00	256.	3.91	362.	$\frac{2.76}{2.76}$
. 5	7.55	159.	6.29	201.	4.98	258.	3.88	364.	-2.75
133.	7.52	. 5	6.27	202.	4.95	260.	3.85	366.	2.73
5	7.49	160.	6.25	203.	4.93	262.	3.82	368.	2.72
134.	7.46	.5	6.23	$\frac{204}{205}$.	$\frac{4.90}{1.00}$	264.	$\frac{3.79}{2.76}$	370.	2.70
.5	$\frac{7.43}{7.41}$	161.	6.21	205.	4.88	266.	$\begin{bmatrix} 3.76 \\ 2.72 \end{bmatrix}$	$\frac{372}{271}$.	$\frac{2.69}{2.67}$
135.	$\frac{7.41}{7.38}$	$ _{162}^{.5}$	$\begin{bmatrix} 6.19 \\ 6.17 \end{bmatrix}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{bmatrix} 4.85 \\ 4.82 \end{bmatrix}$	$\frac{268}{270}$.	$\begin{bmatrix} 3.73 \\ 3.70 \end{bmatrix}$	$\begin{vmatrix} 374. \\ 376. \end{vmatrix}$	$\frac{2.67}{2.66}$
$\frac{.5}{136.}$	$\frac{7.35}{7.35}$	162.	$\begin{bmatrix} 6.17 \\ 6.15 \end{bmatrix}$	$\frac{207}{208}$.	4.83	$\frac{270}{272}$.	$\frac{3.70}{3.68}$	$\frac{376}{378}$.	$\frac{2.66}{2.65}$
-50.	1.00		0.19	-00.	1.01		0.00	J	

Yarn Table — (Concluded)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

Yards Weight (Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarn	Yards Weight (Grains)	Number of Yarr
380.	2.63	450.	2.22	525.	1.90	600.	1.67	750.	1.33
382.	2.62	455.	2.20	530.	1.89	610.	1.64	760.	1.32
385.	2.60	460.	2.17	535.	-1.87	620.	-1.61 -	770.	1.30
390.	2.56	465.	2.15	540.	[-1.85]	630.	-1.59	780.	1.28
395.	2.53	470.	2.13	545.	1.83	640.	1.56	790.	1.27
400.	2.50	475.	2.11	550.	1.82	650.	1.54	800.	1.25
405.	2.47	480.	2.08	555.	1.80	660.	1.52	820.	1.22
410.	2.44	485.	-2.06	560.	1.79	670.	1.49	840.	1.19
415.	2.41	490.	2.04	565.	1.77	680.	1.47	860.	1.16
420.	2.38	495.	2.02	570.	1.75	690.	1.45	880.	1.14
425.	2.35	500.	2.00	575.	1.74	700.	1.43	900.	1.11
430,	2.33	505.	1.98	580.	1.72	710.	1.41	925.	1.08
435.	2.30	510.	-1.96	585.	1.71	720.	1.39	950.	-1.05
440.	2.27	515.	1.94	590.	1.69	730.	1.37	975.	1.03
445.	2.25	520.	1.92	595.	$-1.68 \pm$	740.	1.35	1,000.	1.00

Yarn Number

To find the yarn number or count:

Number of yards in Sample x Grains in a Pound
Weight of sample in grains x standard

Or for cotton yarn using a 120 yard skein:

 $\frac{120 \times 7,000}{\text{Weight of sample x 840}} = \frac{1,000}{\text{Weight of sample in grains}} = \text{Yarn Number}$

Conversion Table Cotton Count to Denier

Courtesy of the United States Testing Company

Cotton Count	Yards per Pound	Equivalent Denier	Cotton Count	Yards per Pound	Equivalent Denier	Cotton Count	Yards per Pound	Equivalent Denier
1	840	5,314.915	43	36,120	123.603	200	168,000	26.575
$\hat{2}$	1,680	2,657.457	44	36,960	120.793	210	176,400	25.309
3	2,520	1,771.638	45	37,800	118.109	220	184,800	24.159
4	3,360	1,328.729	46	38,640	115.542	230	193,200	23.108
5	4,200	1,062,983	47	39,480	113.083	240	201,600	22.146
6	5,040	885.819	48	40,320	110.727	250	210,000	21.260
7	5,880	759.274	49	41.160	108.468	260	218,400	20.442
8	6,720	664.364	50	42,000	106.298	270	226,800	19.685
9	7,560	590.546	52	43,680	102.210	280	235,200	18.982
10	8,400	531.491	54	45,360	98.425	290	243,600	18.327
11	9,240	483.172	56	47,040	94.909	300	252,000	17.716
12	10,080	442.910	58	48,720	91.637	310	260,400	17.145
13	10,920	408.839	60	50,400	88.582	320	268,800	16.609
14	11,760	379.637	62	52,080	85.725	330	277,200	16.106
15	12,600	354,328	64	53,760	83.045	340	285,600	15.633
16	13,440	332.182	66	55,440	80.529	350	294,000	15.186
17	14,280	312.642	68	57,120	78.161	360	302,400	14.76-
18	15,120	295.273	70	58,800	75.927	370	310,800	14.363
19	15,960	279.732	72	60,480	73.818	380	319,200	13.987
20	16,800	265.746	74	62,160	71.823	390	327,600	13.628
21	17,640	253.091	76	63,840	69.933	400	336,000	13.287
22	18,480	241.586	78	65,520	68.140	410	344,400	12.963
23	19,320	231.083	80	67,200	66.436	420	352,800	12.658
24	20,160	221.455	82	68,880	64.816	430	361,200	12.360
25	21,000	212.597	84	70,560	63.273	440	369,600	12.079
26	21,840	204,420	86	72,240	61.801	450	378,000	11.81
27	22,680	196.849	88	73,920	60.396	460	386,400	11.554
28	23,520	189.818	90	75,600	59.055	470	394,800	11.308
29	24,360	183,273	92	77,280	57.771	480	403,200	11,073
30	25,200	177.164	94	78,960	56.542	490	411,600	10,847
31	26,040	171.449	96	80,640	55.364	500	420,000	10.630
32	26,880	166.091	98	82,320	54.234	510	428,400	10.423
33	27,720	161.057	100	84,000	53.149	520	436,800	10.223
34	28,560	156.321	110	92,400	48.317	530	445,200	10.028
35	29,400	151.855	120	100,800	44.291	540	453,600	9.843
36	30,240	147.637	130	109,200	40.884	550	462,000	9.66-
37	31,080	143.646	140	117,600	37.964	560	470,400	9.49
38	31,920	139.866	150	126,000	35.433	570	478,800	9.32-
39	32,760	136.280	160	134,400	33.218	580	487,200	9.16-
40	33,600	132.873	170	142,800	31.264	590	495,600	9.008
41	34,440	129.632	180	151,200	29.527	600	504,000	8.858
42	35,280	126.546	190	159,600	27.973			

Comparison of English and French Counts of Cotton Yarn

English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts
1	0.847	17	14.40	46	38.96	78	66.07	150	127.05
2	1.693	18	15.25	48	40.66	80	67.76	160	135.52
3	2.540	19	16.09	50	42.35	82	69.45	170	143.99
4	3.388	20	16.94	52	44.04	84	71.15	180	152.46
5	4.235	22	18.63	54	45.74	86	72.84	190	160.93
6	5.082	24	20.33	56	47.43	88	74.54	200	169.40
7	5.929	26	22.02	58	49.13	90	76.23	210	177.87
8	6.776	28	23.72	60	50.82	92	77.92	220	186.34
9	7.623	30	25.41	62	52.51	94	79.62	230	194.8
10	8.470	32	27.10	64	54.21	96	81.31	240	203.28
11	9.313	34	28.80	66	55.90	98	83.01	250	211.7
12	10.16	36	30.49	68	57.00	100	84.70	260	220.2
13	11.01	38	32.19	70	-59.29	110	93.17	270	228.6
14	11.86	40	33.88	72	60.98	120	101.64	280	237.1
15	12.70	42	35.57	74	62.68	130	110.11	290	245.6
16	13.55	44	37.27	76	64.37	140	118.58	300	254.1

Comparison of French and English Counts of Cotton Yarn

French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts
1	1.18	17	20.1	46	54.3	78	92.—	150	177.—
$\frac{2}{3}$	$2.36 \\ 3.54$	18 19	$\frac{21.2}{22.4}$	48	56.6 59.—	80 82	$94.4 \\ 96.8$	$\begin{vmatrix} 160 \\ 170 \end{vmatrix}$	189.— 201.—
4 .	4.72	20	23.6	52	61.4	84	99.2	180	212.—
5 6	$\frac{5.90}{7.08}$	$\begin{array}{c c} 22 \\ 24 \end{array}$	$ \begin{array}{c c} 26 \\ 28.3 \end{array} $	54 56	$\begin{array}{c} 63.7 \\ 66.1 \end{array}$	86 88	$101.5 \\ 103.8$	190 200	224.— 236.—
7 8	$8.26 \\ 9.44$	26 28	$\frac{30.7}{33}$	58 60	$68.4 \\ 70.8$	90 92	$106.2 \\ 108.6$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	247.8 260.—
9	10.6	30	35.4	62	73.1	94	110.9	230	271.4
10 11	11.8 13.—	32 34	$\begin{vmatrix} 37.8 \\ 40.1 \end{vmatrix}$	64 66	$\begin{array}{c} 75.5 \\ 77.9 \end{array}$	96 98	$\frac{113.2}{115.6}$	$ \begin{array}{c c} 240 \\ 250 \end{array} $	283.— 295.—
12 13	$\frac{14.2}{15.3}$	36 38	42.5 44.8	68 70	80.2 82.6	100 110	118.— 130.—	$\frac{260}{270}$	307.— 318.6
14	16.5	40	47.2	72	84.9	120	141.6	280	330.—
$\frac{15}{16}$	17.7 18.9	42 44	$\frac{49.6}{51.9}$	$\begin{array}{c} 74 \\ 76 \end{array}$	$87.3 \\ 89.7$	130 140	153.— 165.—	290 300	$342.2 \\ 354$

Warper Production Calculation

To find pounds of production multiply the yards warped per minute by the multiplier opposite the number of yarn warped, and the product by the hours of operation times the number of ends. Example: To find the product of a warper running 52 yards per minute, on No. 18 yarn, with 410 ends on beam, for 40 hours (actual running time), 52 x .00397 x 410 x 40 = 3385.6.

Number of Yarn	Multipliers	Number of Yarn	Multipliers	Number of Yarn	Multipliers	
6	.01190	27	.00265	48	.00149	
7	.01020	28	.00255	49	.00146	
8	.00893	29	. 00246	50	.00143	
9	.00794	30	.00238	52	.00137	
10	.00714	31	.00230	54	.00132	
11	.00649	32	.00223	56	.00127	
12	.00595	33	.00213	58	.00123	
13	.00549	34	.00210	60	.00119	
14	.00510	35	.00204	62	.00115	
15	.00476	36	.00198	64	.00112	
16	.00446	37	.00193	66	.00108	
17	.00420	38	.00188	68	.00105	
18	.00397	39	.00183	70	.00102	
19	.00376	40	.00179	75	.00095	
20	.00357	41	.00174	80	.00089	
21	.00340	42	.00170	85	.00084	
22	.00325	43	.00166	90	.00079	
23	.00311	44	.00162	95	.00075	
24	.00298	45	.00159	100	.00071	
25	.00286	46	.00155	i I		
26	.00275	47	.00152			

Table for Use in Converting Linear Yards into Square Yards

Bureau of Census

The following table is made out in parallel columns. The first column refers to the width, in inches, of the woven products while the opposite figure represents the "equivalent" in square yards.

To convert linear yards to square yards, take the "equivalent" opposite the number representing the width in inches and multiply by the number of linear yards. Example: To convert 1,386,520 linear yards of cloth $38\frac{1}{2}$ inches wide into square yards — the "equivalent" of $38\frac{1}{2}$ inches is 1,069, which multiplied by 1,386,520 gives 1,482,190 square yards.

Width in Inches	Equivalent Square Yards	Width in Inches	Equivalent Square Yards	Width in Inches	Equivalent Square Yards	Width in Inches	Equiv- alent Square Yards	Width in Inches	Equivalent Square Yards	Width in Inches	Equivalent Square Yards
$12\frac{1}{2}$.347	$28\frac{1}{2}$.792	441	1.236	601	1.681	$76\frac{1}{2}$	2.125	921	2.569
13	. 361	29	.806	45	1.250	61	1.694	77	2.139	93	2.583
$13\frac{1}{2}$.375	$29\frac{1}{2}$.819	$45\frac{1}{2}$	1.264	$61\frac{1}{2}$	1.708	$77\frac{1}{2}$	2.163	$93\frac{1}{2}$	2.597
14	.389	30	.833	46	1.278	62	1.722	78	2.167	94	2.611
$14\frac{1}{2}$.403	$-30\frac{1}{2}$.847.	$46\frac{1}{2}$	1.292	$62\frac{1}{2}$	1.736	$78\frac{1}{2}$	2.181	$94\frac{1}{2}$	2.625
15	.417	31	.861	47	1.306	63	1.750	79	2.194	95	2.639
$15\frac{1}{2}$. 431	$31\frac{1}{2}$.875	$47\frac{1}{2}$	1.319	$63\frac{1}{2}$	1.764	$79\frac{1}{2}$	2.208	$95\frac{1}{2}$	2.653
16	.444	32	.889	48	1.333	64	1.778	80	2.222	96	2.667
$16\frac{1}{2}$.458	$32\frac{1}{2}$. 903	$48\frac{1}{2}$	1.347	$64\frac{1}{2}$	1.792	801/2	2.236	$96\frac{1}{2}$	2.681
17	.472	33	.917	49	1.361	65	1.806	81	2.250	97	2.694
$17\frac{1}{2}$.486	$33\frac{1}{2}$. 931	$49\frac{1}{2}$	1.375	$65\frac{1}{2}$	1.819	$81\frac{1}{2}$	2.264	$97\frac{1}{2}$	2.708
18	. 500	34	, 944	50	1.389	66	1.833	82	2.278	98	2.722
$18\frac{1}{2}$.514	$34\frac{1}{2}$.958	$50\frac{1}{2}$	1.403	$66\frac{1}{2}$	1.847	$82\frac{1}{2}$	2.292	$98\frac{1}{2}$	2.736
19	.528	35	.972	51	1.417	67	1.861	83	2.306	99	2.750
$19\frac{1}{2}$.542	$35\frac{1}{2}$. 986	$51\frac{1}{2}$	1.431	$67\frac{1}{2}$	1.875	$83\frac{1}{2}$	2.319	$99\frac{1}{2}$	2.764
20	. 556	36	1.000	52	1.444	68	1.889	84	2.333	100	2.778
$20\frac{1}{2}$. 569	$36\frac{1}{2}$	1.014	$52\frac{1}{2}$	1.458	$68\frac{1}{2}$	1.903	$84\frac{1}{2}$	2.347	$100\frac{1}{2}$	2.792
21	. 583	37	1.028	53	1.472	69	1.917	85	2.361	101	2.806
$21\frac{1}{2}$.597	$37\frac{1}{2}$	1.042	$53\frac{1}{2}$	1.486	$69\frac{1}{2}$	1.931	$85\frac{1}{2}$	2.375	$101\frac{1}{2}$	2.819
22	.611	38	1.056	54	1.500	70	1.944	86	2.389	102	2.833
$22\frac{1}{2}$	625	$38\frac{1}{2}$	1.069	$54\frac{1}{2}$	1.514	$70\frac{1}{2}$	1.958	$86\frac{1}{2}$	2.403	$102\frac{1}{2}$	2.847
23	. 639	39	1.083	55	1.528	71	1.972	87	2.417	103	2.861
$23\frac{1}{2}$. 653	$39\frac{1}{2}$	1.097	$55\frac{1}{2}$	1.542	$71\frac{1}{2}$	1.986	$87\frac{1}{2}$	2.431	1031	2.875
24	. 667	40	1.111	56	1.556	72	2.000	88	2.444	104	2.889
$24\frac{1}{2}$.681	$40\frac{1}{2}$	1.125	$56\frac{1}{2}$	1.569	$72\frac{1}{2}$	2.014	$88\frac{1}{2}$	2.458	$104\frac{1}{2}$	2.903
25	. 694	41	1.139	57	1.583	73	2.028	89	2.472	105	2.917
$25\frac{1}{2}$.708	$41\frac{1}{2}$	1.153	$57\frac{1}{2}$	1.597	$73\frac{1}{2}$	2.042	$89\frac{1}{2}$	2.486		2.931
26	. 722	42	1.167	58	1.611	74	2.056	90	2.500	106	2.944
$26\frac{1}{2}$. 736	$42\frac{1}{2}$	1.181	$58\frac{1}{2}$	1.625	$74\frac{1}{2}$	2.069	$90\frac{1}{2}$	2.514	$106\frac{1}{2}$	2.958
27	. 750	43	1.194	59	1.639	75	2.083	91	2.528		2.972
$27\frac{1}{2}$. 764	$43\frac{1}{2}$	1.208	$59\frac{1}{2}$	1.653	$75\frac{1}{2}$	2.097	$91\frac{1}{2}$	2.542	$107\frac{1}{2}$	2.986
28	.778	44	1.222	60	1.667	76	2.111	92	2.556	108	3.000

Yards of Cloth per Loom per Hour

No allowance for stops

					Picks	i Per Min	UTE				
Picks Per						1310 3411.4					
INCH	100	105	110	115	120	125	130	135	140	145	150
20	8.33	8.75	9.17	9,58	10.00	10.42	10.83	11.25	11.67	12.08	12.50
22	7.58	7.95	8.33	8.71	9.09	9.47 8.68	$\frac{9.85}{0.02}$	10.23	0.79	10.98	11.36
24	6.94	7.29	7.64	7.99	8.33	1	9.03	9.37	9.72	10.07	10.42
26	6.41	6.73	7.05	7.37	$\frac{7.69}{7.14}$	8.01	8.33	8.65	8.97	9.29	9.62
28	5.95	6.25	6.55	$6.85 \\ 6.39$	6.67	$\begin{bmatrix} 7.44 \\ 6.94 \end{bmatrix}$	$7.74 \\ 7.22$	7.50	8.33	8.63	8.93
$\frac{30}{32}$	$5.56 \\ 5.21$	$\begin{bmatrix} 5.83 \\ 5.47 \end{bmatrix}$	$\frac{6.11}{5.73}$	5.99	6.07	$\begin{bmatrix} 6.54 \\ 6.51 \end{bmatrix}$	$\frac{7.22}{6.77}$	$\frac{7.30}{7.03}$	$\frac{7.78}{7.29}$	7.55	7.81
						6.31	$\frac{6.77}{6.37}$	6.62	6.86		7.35
34	4.90	$\frac{5.15}{4.86}$	$\frac{5.39}{5.09}$	$5.64 \\ 5.32$	5.88 5.56	5.79	6.02	6.25	6.48	$\begin{bmatrix} 7.11 \\ 6.71 \end{bmatrix}$	$\frac{7.35}{6.94}$
36 38	$\frac{4.63}{4.39}$	4.61	$\frac{3.05}{4.82}$	5.04	5.36 5.26	5.48	5.70	5.92	6.14	$\frac{6.71}{6.36}$	6.58
$\frac{35}{40}$	$\frac{4.33}{4.17}$	4.37	$\frac{4.52}{4.58}$	$\frac{3.04}{4.79}$	5.00	5.21	5.42	5.63	5.83	6.04	6.25
42	$\frac{4.17}{3.97}$	4.17	4.37	$\frac{4.79}{4.56}$	$\frac{3.00}{4.76}$	4.96	5.16	5.36	5.56	5.75	5.95
44	$\frac{3.37}{3.79}$	3.98	$\frac{4.37}{4.17}$	$\frac{4.36}{4.36}$	$\frac{4.70}{4.55}$	4.73	$\frac{3.10}{4.92}$	5.11	5.30	$\begin{bmatrix} 5.75 \\ 5.49 \end{bmatrix}$	5.68
46	3.62	$\frac{3.80}{3.80}$	3.99	$\frac{4.30}{4.17}$	4.35	4.73	4.71	4.89	$\frac{5.30}{5.07}$	5.25	5.43
48	$\frac{3.02}{3.47}$	3.65	3.82	3.99	4.17	4.34	4.51	4.69	4.86	5.03	5.21
50	3.33	$\frac{3.05}{3.50}$	$\frac{3.62}{3.67}$	3.83	4.00	4.17	4.33	$\frac{4.05}{4.50}$	4.67	4.83	5.00
$\frac{50}{52}$	3.21	$\frac{3.30}{3.37}$	3.53	3.69	3.85	4.01	4.17	4.33	4.49	4.65	4.81
$\frac{52}{54}$	$\frac{3.21}{3.09}$	$\frac{3.37}{3.24}$	$\frac{3.33}{3.40}$	3.55	$\begin{vmatrix} 3.33 \\ 3.70 \end{vmatrix}$	3.86	4.01	4.17	4.32	4.48	4.63
56	2.98	3.13	$\frac{3.40}{3.27}$	3.42	$\frac{3.70}{3.57}$	3.72	3.87	4.02	4.17	4.32	4.46
58	$\frac{2.55}{2.87}$	3.02	3.16	3.30	3.45	3.72	$\frac{3.37}{3.74}$	3.88	4.02	4.17	4.31
60	$\frac{2.37}{2.78}$	2.92	$\frac{3.10}{3.06}$	$\frac{3.30}{3.19}$	3.33	3.47	3.61	$\frac{3.33}{3.75}$	3.89	4.03	4.17
62	$\frac{2.78}{2.69}$	2.82	$\frac{3.00}{2.96}$	$\frac{3.19}{3.09}$	3.23	3.36	$\begin{vmatrix} 3.01 \\ 3.49 \end{vmatrix}$	3.63	3.76	3.90	4.03
64	$\frac{2.69}{2.60}$	2.73	$\frac{2.56}{2.86}$	$\frac{3.05}{2.99}$	3.13	3.26	3.39	3.52	3.65	3.78	3.91
66	$\frac{2.50}{2.53}$	$\frac{2.15}{2.65}$	$\frac{2.30}{2.78}$	2.90	3.03	$\begin{vmatrix} 3.26 \\ 3.16 \end{vmatrix}$	3.28	3.41	3.54	3.66	$\frac{3.31}{3.79}$
68	$\frac{2.35}{2.45}$	$\frac{2.05}{2.57}$	$\frac{2.78}{2.70}$	2.82	$\frac{3.03}{2.94}$	$\frac{3.10}{3.06}$	3.19	3.31	3.43	3.55	3.68
70	2.38	$\frac{2.57}{2.50}$	$\frac{2.70}{2.62}$	$\frac{2.32}{2.74}$	$\frac{2.34}{2.86}$	$\frac{3.00}{2.98}$	3.10	3.21	3.33	3.45	3.57
72	$\frac{2.33}{2.31}$	$\frac{2.30}{2.43}$	2.55	2.66	2.78	$\frac{2.36}{2.89}$	3.01	3.13	3.24	3.36	3.47
74	$\frac{2.31}{2.25}$	2.36	$\frac{2.33}{2.48}$	$\frac{2.00}{2.59}$	$\frac{2.76}{2.70}$	2.82	$\frac{3.01}{2.93}$	3.04	3.15	$\frac{3.30}{3.27}$	3.38
76	2.19	$\frac{2.30}{2.30}$	2.41	$\frac{2.53}{2.52}$	$\frac{2.76}{2.63}$	$\begin{vmatrix} 2.32 \\ 2.74 \end{vmatrix}$	2.85	2.96	3.07	3.18	$\frac{3.33}{3.29}$
78	$\frac{2.13}{2.14}$	$\frac{2.30}{2.24}$	2.35	2.46	2.56	2.67	$\frac{2.33}{2.78}$	2.88	2.99	3.10	3.21
80	2.08	2.19	$\frac{2.33}{2.29}$	$\frac{2.40}{2.40}$	$\frac{2.50}{2.50}$	$\frac{2.60}{2.60}$	$\frac{2.75}{2.71}$	2.81	$\frac{2.93}{2.92}$	3.02	3.13
82	$\frac{2.00}{2.03}$	2.13	$\frac{2.23}{2.24}$	2.34	2.44	2.54	2.64	$\frac{2.01}{2.74}$	2.85	2.95	3.05
84	1.98	2.08	2.18	2.28	2.38	2.48	2.58	2.68	2.78	2.88	2.98
86	1.94	2.03	2.13	2.23	2.33	2.42	2.52	$\frac{2.63}{2.62}$	2.71	2.81	$\frac{2.90}{2.91}$
88	1.89	1.99	2.08	2.18	2.27	2.37	$\frac{2.02}{2.46}$	2.56	2.65	$\frac{1}{2.75}$	2.84
90	1.85	1.94	$\frac{2.03}{2.04}$	2.13	2.22	2.31	2.41	$\frac{2.50}{2.50}$	$\frac{2.09}{2.59}$	$\frac{2.15}{2.69}$	2.78
$\frac{50}{92}$	1.81	1.90	1.99	2.08	2.17	$\frac{2.31}{2.26}$	2.36	$\frac{2.30}{2.45}$	$\frac{12.55}{2.54}$	$\frac{2.63}{2.63}$	2.72
94	1.77	1.86	1.95	$\frac{2.03}{2.04}$	$\frac{2.17}{2.13}$	2.22	$\frac{2.30}{2.30}$	$\frac{2.49}{2.39}$	2.48	$\frac{2.03}{2.57}$	$\frac{2.72}{2.66}$
96	1.74	1.82	1.91	$\frac{2.04}{2.00}$	$\frac{2.13}{2.08}$	2.17	$\frac{2.36}{2.26}$	2.34	$\begin{vmatrix} 2.43 \\ 2.43 \end{vmatrix}$	2.52	$\frac{2.60}{2.60}$
98	1.70	1.79	1.87	1.96	2.04	2.13	2.21	$\begin{bmatrix} 2.31 \\ 2.30 \end{bmatrix}$	2.38	2.47	$\frac{2.55}{2.55}$
100	1.67	1.75	1.83	1.92	$\frac{2.04}{2.00}$	2.08	2.17	2.25	2.33	2.42	$\frac{1}{2.50}$
	1.0.	1.19	1.00	1	2.00	1 2.00		,			

$\textbf{Yards of Cloth per Loom per Hour} \leftarrow (\textbf{Continued})$

No allowance for stops

Picks	Picks per Minute										
PER INCH	155	160	165	170	175	180	185	190	195	200	205
							12.13	17.00		10.05	1- 00
20	12.92	13.33	13.75	14.17	14.58	15.00	15.42	15.83	16.25	16.67	17.08
22	11.74	12.12	12.50	12.88	13.26	13.64	14.02	14.39	14.77	15.15	15.53
24	10.76	11.11	11.46	11.81	12,15	12.50	12.85	13.19	13.54	13.89	14.24
26	9.94	10.26	10.58	10.90	11.22	11.54	11.86	12.18	12.50	12.82	13.14
28	9.23	9.52	9.82	$\frac{10.12}{0.11}$	10.42	10.71	11.01	11.31	11.61	11.90	12.20
30	8.61	8.89	9.17	9.44	9.72	10.00	10.28	10.55	10.83	11.11	11.39
32	8.07	8.33	8.59	8.85	9.11	9.37	9.64	9.90	10.16	10.42	10.68
34	7.60	7.84	8.09	8.33	8.58	8.82	9.07	9.31	9.56	9.80	10.05
36	7.18	7.41	7.64	7.87	8.10	8.33	8.56	8.80	9.03	9.26	9.49
38	6.80	7.02	7.24	7.46	7.68	7.89	8.11	8.33	8.55	8.77	8.99
40	6.46	6.67	6.87	7.08	7.29	7.50	7.71	7.92	8.13	8.33	8.54
42	6.15	6.35	6.55	6.75	6.94	7.14	7.34	7.54	7.74	7.94	8.13
44	5.87	6.06	6.25	6.44	6.63	6.82	7.01	7.20	7.39	7.58	7.77
46	5.62	5.80	5.98	6.16	6.34	6.52	6.70	6.88	7.07	7.25	7.43
48	5.38	5.56	5.73	5.90	6.08	6.25	6.42	6.60	6.77	6.94	7.12
50	5.17	5.33	5.50	5.67	5.83	6.00	6.17	6.33	6.50	6.67	$6.\overline{8}3$
52	4.97	5.13	5.29	5.45	5.61	5.77	5.93	6.09	6.25	6.41	6.57
54	4.78	4.94	5.09	5.25	5.40	5.56	5.71	5.86	6.02	6.17	6.33
56	4.61	4.76	4.91	5.06	5.21	5.36	5.51	5.65	5.80	5.95	6.10
58	4.45	4.60	4.74	4.88	5.03	5.17	5.32	5.46	5.60	5.75	5.89
60	4.31	4.44	4.58	4.72	4.86	5.00	5.14	5.28	5.42	5.56	5.69
62	4.17	4.30	4.44	4.57	4.70	4.84	4.97	5.11	5.24	5.38	5.51
64	4.04	4.17	4.30	4.43	4.56	4.69	4.82	4.95	5.08	5.21	5.34
66	3.91	4.04	4.17	4.29	4.42	4.55	4.67	4.80	4.92	5.05	5.18
68	3.80	3.92	4.04	4.17	4.29	4.41	4.53	4.66	4.78	4.90	5.02
70	3.69	3.81	3.93	4.05	4.17	4.29	4.40	4.52	4.64	4.76	4.88
72	3.59	3.70	3.82	3.94	4.05	4.17	4.28	4.40	4.51	4.63	4.75
74	3.49	3.60	3.72	3.83	3.94	4.05	4.17	4.28	4.39	4.50	4.62
76	3.40	3.51	3.62	3.73	3.84	3.95	4.06	4.17	4.28	4.39	4.50
78	3.31	3.42	3.53	3.63	3.74	3.85	3.95	4.06	4.17	4.27	4.38
80	3.23	3.33	3.44	3.54	3.65	3.75	3.85	3.96	4.06	4.17	4.27
82	3.15	3.25	3.35	3.46	3.56	3.66	3.76	3.86	3.96	4.07	4.17
84	3.08	3.17	3.27	3.37	3.47	3.57	3.66	3.77	3.87	3.97	4.07
86	3.00	3.10	3.20	3.29	3.39	3.49	3.58	3.68	3.78	3.88	3.97
88	2.94	3.03	3.13	3.22	3.31	3.41	3.50	3.60	3.69	3.79	3.88
90	2.87	2.96	3.06	3.15	3.24	3.33	3.43	3.52	3.61	3.70	3.80
92	2.81	2.90	2.99	3.08	3.17	3.26	3.35	3.44	3.53	3.62	3.71
94	2.75	2.84	2.93	3.01	3.10	3.19	3.28	3.37	3.46	3.55	3.63
96	2.69	2.78	2.86	2.95	3.04	3.13	3.21	3.30	3.39	3.47	3.56
98	2.64	2.72	2.81	2.89	2.98	3.06	3.15	3.23	3.32	3.40	3.49
100	2.58	2.67	2.75	2.83	2.92	3.00	3.08	3.17	3.25	3.33	3.44

$\mathbf{Yards} \ \mathbf{of} \ \mathbf{Cloth} \ \mathbf{per} \ \mathbf{Loom} \ \mathbf{per} \ \mathbf{Hour} - (\mathbf{Continued})$

No allowance for stops

Picks	Picks per Minute										
PER INCH	100	105	110	115	120	125	130	135	140	145	150
102	1.63	1.72	1.80	1.88	1.96	2.04	2.12	2.21	2.29	2.37	2.45
104	1.60	1.68	1.76	1.84	1.92	2.00	2.08_{\odot}	2.16	2.24	2.32	2.40
106	1.57	1.65	1.73	1.81	1.89	1.97	2.04	2.12	2.20	2.28	2.36
108	1.54	1.62	1.70	1.77	1.85	1.93	2.01	2.08	2.16	2.24	2.31
110	1.52	1.59	1.67	1.74	1.82	1.89	1.97	2.05	2.12	2.20	2.27
112	1.49	1.56	1.64	1.71	1.79 -	1.86	1.93	2.01	2.08	2.16	2.23
114	1.46	1.54	1.61	1.68	1.75	1.83	1.90	1.97	2.05	2.12	2.19
116	1.44	1.51	1.58	1.65	1.72	1.80	1.87	1.94	2.01	2.08	2.16
118	1,41	1.48	1.55	1.62	1.69	1.77	1.84	1.91	1.98	2.05	2.12
120	1.39	1.46	1.53	1.60	1.67	1.74	1.81	1.87	1.94	2.01	2.08
122	1.37	1.43	1.50	1.57	1.64	1.71	1.78	1.84	1.91	1.98	2.04
124	1.34	1.41	1.48	1.55	1.61	1.68	1.75	1.81	1.88	1.95	2.01
126	1.32	1.39	1.46	1.52	1.59	1.65	1.72	1.79	1.85	1.92	1.98
128	1.30	1.37	1.43	1.50	1.56	1.63	1.69	1.76	1.82	1.89	1.95
130	1.28	1.35	1.41	1.47	1.54	1.60	1.67	1.73	1.79	1.86	1.92
134	1.24	1.31	1.37	1.43	1.49	1.55	1.62	1.68	1.74	1.80	1.87
136	1.23	1.29	1.35	1.41	1.47	1.53	1.59	1.65	1.72	1.78	1.84
140	1.19	1.25	1.31	1.37	1.43	1.49	1.55	1.61	1.67	1.73	1.79
144	1.16	1.22	1.27	1.33	1.39	1.45	1.50	1.56	1.62	1.68	1.74
146	1.14	1.20	1.26	1.31	1.37	1.43	1.48	1.54	1.60	1.66	1.71
150	1.11	1.17	1.22	1.28	1.33	1.39	1.44	1.50	1.56	1.61	1.67
154	1.08	1.14	1.19	1.24	1.30	1.35	1.41	1.46	1.52	1.57	1.63
156	1.07	1.12	1.18	1.23	1.28	1.34	1.39	1.44	1.50	1.55	1.60
160	1.04	1.09	1.15	1.20	1.25	1.30	1.35	1.41	1.46	1.51	1.56
164	1.02	1.07	1.12	1.17	1.22	1.27	1.32	1.37	1.42	1.47	1.5
166	1.00	1.05	1.10	1.15	1.20	1.26	1.31	1.35	1.41	1.46	1.5
170	.98	1.03	1.08	1.13	1.18	1.23	1.27	1.32	1.37	1.42	1.4
174	,96	1.01	1.05	1.10	1.15	1.20	1.25	1.29	1.34	1.39	1.4
176	.95	, 99	1.04	1.09	1.14	1.18	1.23	1.28	1.33	1.37	1.4:
180	.93	.97	1.02	1.06	1.11	1.16	1.20	1.25	1.30	1.34	1.39

Yards of Cloth per Loom per Hour — (Concluded)

No allowance for stops

Ріскѕ					Picks	PER MIN	СТЕ				
INCH	155	160	165	170	175	180	185	190	195	200	205
102	2.53	2.61	2.70	2.78	2.86	2.94	3.02	3.10	3.19	3.27	3.35
104	2.48	2.56	2.64	2.72	2.80	2.88	2.96	3.04	3.13	3.21	3.20
106	2.44	[-2.52]	2.59	2.67	2.75	2.83	2.91	2.99	3.07	3.14	3.22
108	2.39	2.47	2.55	2.62	2.70	2.78	2.85	2.93	3.01	3.09	3.16
110	2.35	2.42	2.50	2.58	2.65	2.73	2.80	2.88	2.95	3.03	3.11
112	2.31	2.38	2.46	2.53	2.60	2.68	2.75	2.83	2.90	2.98	3.05
114	2.27	2.34	2.41	2.49	2.56	2.63	2.70	2.78	2.85	2.92	3.00
116	2.23	2.30	2.37	2.44	2.51	2.59	2.66	2.73	2.80	2.87	2.95
118	2.19	2.26	2.33	2.40	2.47	2.54	2.61	2.68	2.75	2.82	2.90
120	2.15	2.22	2.29	2.36	2.43	2.50	2.57	2.64	2.71	2.78	2.85
122	2.12	2.19	2.25	2.32	2.39	2.46	2.53	2.60	2.66	2.73	2.80
124	2.08	2.15	2.22	2.28	2.35	2.42	2.49	2.55	2.62	2.69	2.76
126	2.05	2.12	2.18	2.25	2.31	2.38	2.45	2.51	2.58	2.65	2.71
128	2.02	2.08	2.15	2.21	2.28	2.34	2.41	2.47	2.54	2.60	2.67
130	1.99	2.05	2.12	2.18	2.24	2.31	2.37	2.44	2.50	2.56	2.63
134	1.93	1.99	2.05	2.11	2.18	2.24	2.30	2.36	2.43	2.49	2.55
136	1.90	1.96	2.02	2.08	2.14	2.21	2.27	2.33	2.39	2.45	2.51
140	1.85	1.90	1.96	2.02	2.08	2.14	2.20	2.26	2.32	2.38	2.44
144	1.79	1.85	1.91	1.97	2.03	2.08	2.14	2.20	2.26	2.31	2.37
146	1.77	1.83	1.88	1.94	2.00	2.05	2.11	2.17	2.23	2.28	2.34
150	1.72	1.78	1.83	1.89	1.94	2.00	2.06	2.11	2.17	2.22	2.28
154	1.68	1.73	1.79	1.84	1.89	1.95	2.00	2.06	2.11	2.16	2.22
156	1.66	1.71	1.76	1.82	1.87	1.92	1.98	2.03	2.08	2.14	2.19
160	1.61	1.67	1.72	1.77	1.82	1.87	1.93	1.98	2.03	2.08	2.14
164	1.58	1.63	1.68	1.73	1.78	1.83	1.88	1.93	1.98	2.03	2.08
166	1.56	1.61	1.66	1.71	1.76	1.81	1.86	1.91	1.96	2.01	2.06
170	1.52	1.57	1.62	1.67	1.72	1.76	1.81	1.86	1.91	1.96	2.01
174	1.48	1.54	1.58	1.63	1.68	1.72	1.77	1.82	1.87	1.92	1.96
176	1.47	1.52	1.56	1.61	1.66	1.70	1.75	1.80	1.85	1.89	1.94
180	1.44	1.48	1.53	1.57	1.62	1.67	1.71	1.76	1.81	1.85	1.90

Average Yarn Sizes for Knitting Machines

Courtesy of the Textile World

The accompanying table gives the averages of yarn sizes used on machines with different needles per inch. Yarns coarser or finer can be used, of course, but this table will serve as a guide.

	RIB MACHINES	4	Cylinder	PLAIN MACHINES						
Woolen	Wersted	Cotton	Needles per Inch	Cotton	Wersted	Wooler				
. 75	2.25	1.5	3	.75	1.1	.40				
1.25	3.75	2.5	-1	1.5	2.25	.75				
2.00	6.0	4.0	5	2.0	3.0	1.00				
3.00	9.0	6.0	6	3.0	4.5	1.50				
4.25	12.0	8.0	7	4.0	6.0	2.00				
5.25	15.0	10.0	8	5.0	7.5	2.50				
6.75	19.5	13.0	9	6.0	9.0	3.00				
8.50	24.0	16.0	10	7.0	10.5	3.75				
	30.0	20.0	11	8.0	12.0	4.25				
	36.0	24.0	12	10.0	15.0	5.25				
	42.0	28.0	13	12.0	18.0	6.25				
	45.0	30.0	14	14.0	21.0	7.25				
	50.0	33.0	15	16.0	24.0	8.50				
	54.0	36.0	16	20.0	30.0					
	60.0	40.0	17	22.0	33.0					
			18	25.0	37.0					
			19	27.0	41.0					
			20	30.0	45.0					
			21	32.0	48.0					
			22	35.0	53.0					
			24	40.0	60.0					

 $\mbox{Full Fashion} \left\{ \begin{array}{l} 39 \mbox{ gauge, } 10 \mbox{ to } 12 \mbox{ thread silk} \\ 42 \mbox{ gauge, } 8 \mbox{ to } 10 \mbox{ thread silk} \end{array} \right.$

Reasonable Allowance for Stops

Courtesy of the Textile World

The following figures show a reasonable allowance for stoppage of different classes of knitting mill machinery. They indicate the average percentage of the running time lost under normal conditions.

Per Cent
Winders 5 to 25

									ent
Winders .								. 5 t	o 25
Flat machines								. 5 t	o 20
Small ribbers									10
Large ribbers									15
Loop wheel mad	hine	S							10
Automatics									10

Table Showing Number of Slots in Cylinders of Different Cuts Courtsey of the Textile World [Nondesperinds]

28	2.00
26	514222888888444488883898428888888888888888
24	22.22.22.22.22.22.22.22.22.22.22.22.22.
53	12246666788888888888888888888888888888888
21	24.55.55.55.55.55.55.55.55.55.55.55.55.55
20	2557.X 2552.2 25
19	0.25.25.25.25.25.25.25.25.25.25.25.25.25.
18	######################################
17	######################################
16	25
15	
14	
13	
12 1	28.52.52.52.52.52.52.52.52.52.52.52.52.52.
11	25
	######################################
10	
6	
x	#4F82552884885528888888888888888888888888
	X 5588 568 568 568 568 568 568 568 568 56
13	28 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
4	22822314382328364255895554 2282314382328864558895554 228231438533386533864 228231438533386533864 2382334385334386533864 23823438534386538864 23823438534386538864 238234386538864 23823438658864 238234864 238234864 238234864 238236 238234 238234 238234 238234 238234 238234 238234 238234 23823 238234 23823 238236 238236 238236 238236 238236 238236 23823 238236 238236 23823
က	232222222222222222222222222222222222222
Size of Ma-	######################################

Latch Needle Gauge and Needles Per Inch

Courtesy of the Textile World

The common gauges of latch needles are listed here with the number of needles per inch in the cylinder of the machines to correspond with them.

								Needles	PER INCH
		Need	LE G	AUCE				Ribbers	Automatics
2								1-2	-
1							.	2-3	_
3								3-4	_
2								3-5	5 - 8.4
3								4-7	8.4-10.1
1								6-9	10.3-11.6
;								8-13	11.6-14.9
3								10-15	15.0-18.6
1					•			_	18.3-20.3
)								16 and up	_

Production of Cotton Rib Underwear

Compiled by Gilbert R. Merrill

[Per 9 hours, no stops, 1 foot yarn for 4 inches of needles]

					Cu	Г				Yarn Size	Production per Feed [In Pounds]
4										$2\frac{1}{3}$	50.0
5										4	29.0
6										6	20.0
7										8	15.0
8										10	12.0
9	•					Ċ	Ċ			13	9.1
Ω		,								16	7.4
1	•	•	•		•		•			20	5.9
$\frac{1}{2}$	•	•	•	•		•	•	•	•	$\frac{24}{24}$	4.9
9	•	•	•	•			•	•	•	28	4.2
4	•	•		•					٠	34	3.5

Average Underwear Production

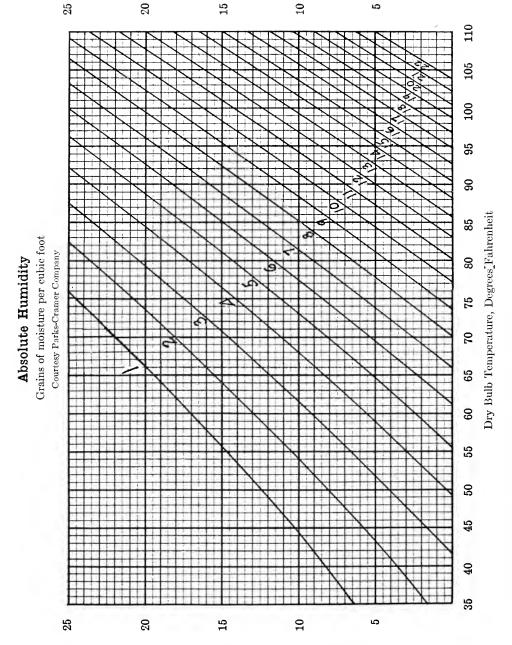
Compiled by Gilbert R. Merrill

[Dozen garments per 10 hours]

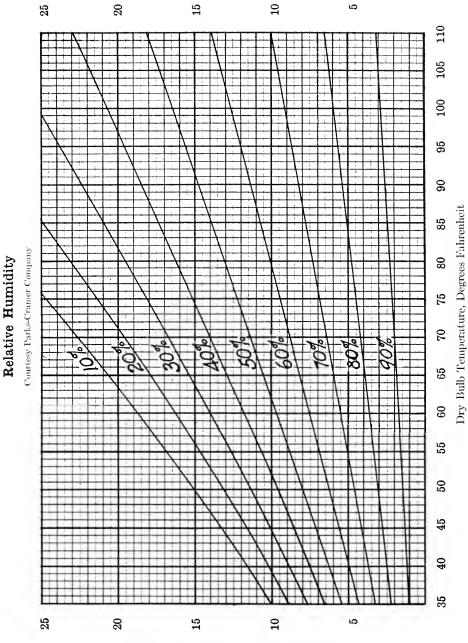
OPERATION	Union Suits	Shirts	Drawers	Usual Operative
Knit (6 to 10 machines):				
Webbing	36-60	60-90	42-90	Man
Cuffs	300-325	300-325	300-325	Man
Collarettes	500-600	500-600	-	Man
Nap (3 machines)	180	420	300	Man
Cut:				
Hand	40	100	100	Man
Machine	200	375	375	Man
Examine and dozen .	300	300	300	Woman
Cuff	50	100	100	Woman
Welt	-	75	_	Woman
Seam	11-18	35-45	25-45	Woman
Cover seam	20-25	40-75	40-60	Woman
Layout and mark neck	125 - 150	150-200	_	Woman
Neck	140-150	175-200	_	Woman
Neck cut	125-160	150-200	_	Woman
Face	50 - 75	120-160	_	Woman
Button stay	60-75	140-185	-	Woman
Collarette	40-80	40-80	_	Woman
Overedge	60 - 125	100-200	_	Woman
Fack and bind	50 - 75	50-100	_	Woman
Γ rim	_	_	150-175	Woman
Double seat	50	_	65-75	Woman
Finish	_	_	18-22	Woman
Strap	_	_	90-100	Woman
Evelet:				
Punched	_	_	300-320	Woman
Worked	_	_	550-600	Woman
Buttonholes	50 (8 button)	100 (4 button)	150 (3 button)	Woman
Mark buttons	100 (8 button)	200 (4 button)	250 (3 button)	Woman
Sew buttons	60 (8 button)	125 (4 button)	140 (3 button)	Woman
Examine	25-30	50-85	45-60	Woman
Mend garments	150-200	150-200	150-200	Woman
Label	80	80	80	Woman
Press	45-80	70-140	80-150	Man
Fold	45-60	90	100	Woman
Box	150	300-350	300-400	Woman

Above figures are for plant having a capacity of 800 dozen per day, with 7 to 8 per cent seconds.

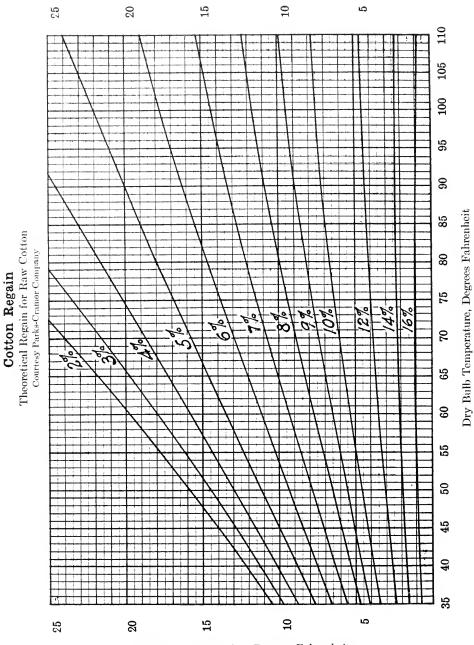
Order of inspection: first, for heavy or light ends, dust marks, discolored buttons, crooked or strained seams; second, for seams, buttons and buttonholes, neck, leg, and sleeve finish.



Wet Bulb Depression, Degrees Fahrenheit



Wet Bulb Depression, Degrees Fahrenheit



Wet Bulb Depression, Degrees Fahrenheit

Psychrometric Humidity Table for Use with Sling Psychrometer only

Courtesy Parks-Cramer Company

TEME	,	- 13																		-					_
OF DRY		Re	lat	ive	Hu	mid	itie	·s-								t II SIO		idit	ies	Sı	nal	1 F	igur	es	- 1
Fo	100	10	2	3	4	5.	6	7	Т <u>в</u>	9	10	111	12	13	14	115	16	17	18	19	20	21	22	23	21
60	100		89	83	78	73	68	63	\$8	5,3 5,3	48	43	39		30	26	21	17	1,3	9,	5,	1,		23	
61	100		89	84	7.8	7.3	68	63	58	54	49	44	40	1.9	31	27	22	18	14	10	7	3	-		-
62	100	1 30	69	84	79	74	69 42	64	50	5,4	50	45	41	36	32	28	24	20	16	15	8	4	1,	-	-
63	100		89		7,9	74	69	4		55	50	46	42		3	29	25	51	17	13	10	6	2		\dashv
64	100		90		7,9	74	70	65	бd	56	4	47	43		34	30	26	20	18	15	11	7	4,		\dashv
65	100		90	85	80	7,5	7,0	66	61	56	5,2	48	44	39	35	31	27	24	20	16	15	9	5,	2,	
66	100		90		80	7,5	ול	66	61	57	5,3	48	44	40	36	32	29	25	21	17	14	10,	7	3,	\dashv
67	100		90		80	7,5	11	66	62	Б8	5,3	49	45	41	37	38	30	26	20	19	15	\°2	8 0 6	5.2	2,
68	100		90		80	7,6	1	67	62	58	54	5,0	46		38	3,4	31	27	23	20	16	13	10,	6	3,
69	100		90		81	76	1/2	67	63	49	55	B1	47	43	39	35	33	28		21	18	14	11	8,	5,
70	100		9,0		81	17	7,2	68	64	59	55	\$1	48	4	40	36	33	29		2/2	19	15	123	9,	6
71	100		9,0	8,6	81	17	7,2	68	64	<u>6</u>	56	52	48		41	37	33	30		23	20	17	13	10	7.
72	100		91	86	82	77	7,3	69	65	6	57	5 B	49		42	3,8		31	28	24	21	18	15	12	9
73	100		91	86	8,2	78	7,3	69	5,5	61	5,7	53	50		4,2	39	35	32	29	25	22	19	16	13	10
74		95	91	86	82	78	7,4	69	65	61	58	54	50	47	43	39	36	83	29	26	2,8	20	17	14	11
75	100	-	91	86	8,2	7/8	74	70	66	62	5,8	54	51	47	44	40	37	34	30	27	24	21	18	15	1,2
76	100		91	87	82	7,8	7,4	70	66	62 62	59 59	55	51	48	4	41	38	3,4	31	28	25	20	1,9	16	13
77	100		91	87	83	70	74	71	97	63	59	56	52	48	4	42	39	35	32	29	26	23		17	14
78	100		91	87	83	7.9	7,5	71	67	63	50	56	43		46	43	39	36	33	30	26 27 28	24			16
79	100		91	87	83	7,9	7,5	71	68	64	40	57	5,3	50	46	43	40	37	14	31	28	25	22	19	17
80	1,00		91	87	83	7,9	75	7,2	68	64	41	57	5,4	50	47	44	41	38	3	32	29	26		20	18
81	100		92	88	84	80	76	7,8	69	65 63	di,	58 58	5,5	51	48	45	41	39	38	33	30	28		21	²° 19
82	100		92	88	84	80	76	72	6g	65	6	58 58	55	51	48	45	42	39	36	33	30	28	25	22	20
83	100		92		84	80	76	73	69	66	62	5,9	56	52	49	44	42	40	36	84	31	28	25		201
84	100		92	88	84	80	76	13	69	66	6,2	5,9	56	52	49	46	43	40	37	35	32	29			21
85	100		92	88	84	8d	77	13	69	66	63	60 60	57	53	50	47	44	41	38	34	33	30			22
86	100		92	88	84	81	77	73	70	66	63	60 60	5,7	\$ 3	50 50	47 62	14	42	39	36	33	31		26	23
87	100		92	68	85	81	77	74	70	67 67	64	61	5,7	54	51	48	45	43	40	37	34	32	29	27	34
88	100		92	88	85	81	77	74	70	57	64	61	57	5,4	51	48	46	43	40	37	35	32		27	23
89	100		9,2	88	85	81	77	7.	70	67	64	61	57	5,4	51	48	46	43	40	3,7	35	33		28	25
90	100	96	9,2	89	85	81	7,8	7	71	68	65	61	58	5,5	5,2	49	47 69	44	41	39	36	34			26 36
91	100		92	89	85	82	78	75	72	68	9.6 65	62 42	59 90	56	53	72 50	48	45	42	40	37	35			27
92	100	96	92	89	85 85	82	78	75	72	48	65 102	62	90 59	56 58	53	7.6 50	48	45	42	40	37	35		46	28
93	100	96	93	89	85 85	82	79	7,5	72	69	66	63	60 60	57 92	54	51 82	49	46	43	41	38	\$6			29
94	100	96	93		85	82 136	79 731	75	72	69	66	63	60	57 57	87 54	51	49	46	43	41	38	36			29
95	100	96	93	_	85	82	7.9	7,5	72	69	66	63	60	57	54	51 87	49	44	43	41	38	36			
95 96	100	96	93	89	86	82	79	7,0	73	69	66	¹⁰⁸	61,	58 502	12 55	52 92	50	47	44	42	39	37 37	35	32	29 30 30
90 97	100		93	89 161	86	82	79	7.6	73	69		63	61	58 58	> 55 			47		42	3,9	37			31
97 98	100	96	93	89	86	83	79	76	73	70	67	64	61	58	5 <u>6</u>			48	45	43					
99	100	96	9,3	89	86	83	80	77	73	경	68 131	65 65	62	59	56 50	54	51	49	46	44	41	3,9		34 35	32 33
23	19,4		_ ``	17,1	DITIES		111	_	ES (9	_	CTUAL			113		NS OF					7 9 C FOC			67	63
				10g	_		11		0	Č			8			. 5 . 51						, vr	417		ليب

Maximum Limits of Humidity at Given Temperatures when Artificial Humidification is employed

General Laws, chapter 149, section 110, Commonwealth of Massachusetts

I Dry Bulb Thermometer Readings Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	HII Percentage of Humidity	I Dry Bulb Thermometer Readings (Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	III Percentage of Humidity
60	58	88	78	73.5	77
61	59	88	79	74.5	77.5
62	60	88	80	75.5	$\frac{77.5}{1}$
63	61	88	81	76	76
64	62	88	82	76.5	74
65	63	88	83	77.5	74
66	64	88	84	78	72
67	65	88	85	79	72
68	66	88	86	80	72
69	67	88	87	80.5	71
70	68	88	88	81.5	71
71	68.5	85.5	89	82.5	71
72	69	84	90	83	69
73	70	84	91	83.5	68
74	70.5	81.5	92	84.5	68
75	71.5	81.5	93	85.5	68
76	72	79	94	86	68
77	73	79	95	87	66

Grades and Colors of the Universal Standards for American Upland Cotton

United States Department of Agriculture Circular 278

Blue- stained	Gray	Standards for Grades of Upland Cotton, White	Spotted	Yellow- tinged	Light- stained	Yellow- stained
		1 or midling fair				
		2 or strict good midling		2 T.		
3 B.	S G.	3 or good midling	3 Sp.	3 T.	3 L. S.	3 S.
4 B.	4 G.	4 or strict midling	4 Sp.	4 T.	4 L. S.	4 S.
5 B.	5 G.	5 or midling	5 Sp.	5 T.	5 L. S.	5 S.
		6 or strict low midling	6 Sp.	6 T.		
		7 or low midling	7 Sp.	7 T.		
		8 or strict good ordinary				
		9 or good ordinary				

Symbols in heavy type denote grades and colors for which practical forms of the official cotton standards are prepared. Symbols in italics represent the designations of cotton which in color is between practical forms.

The grades shown above the black lines are deliverable on future contracts made in accordance with section 5 of the United States Cotton Futures Act. Those below the line are untenderable on such contracts.

Standard Textile Test Methods of the Federal Specifications Board

Atmospheric Conditions

Tests may be made under prevailing atmospheric conditions except in the settlement of disputes where moisture is an influencing factor in tests for breaking strength, thread count, weight, width, length, shrinkage, impregnation, etc. Such tests shall then be made upon material having normal moisture content, obtained by exposure for at least four hours to an atmospheric condition of 65 per cent relative humidity at 70° F.

The effect of humidity is a decided variable in these tests, depending on the construction, finishing, sizing, etc. A high relative humidity will increase all weight results, and in breaking strength results will show an increase for vegetable fibers and a decrease for animal fibers. The manufacturer should note the humidity on a sling pyschrometer at the time tests are made to establish whether his material conforms to these specifications, and take into consideration the above facts.

Breaking Strength, Strip Method

Preparation of Test Specimens. — Six test specimens approximately — inches (see Table A) long by — inches wide shall be cut, three in the direction of the warp and three in the direction of the filling, respectively. Each specimen shall be ravelled to exactly 1 inch by taking from each side approximately the same number of threads. (See Fig. 1.) Care shall be taken that no two test specimens include the same threads, except for retest as specified below. No specimen for testing shall be taken at less than 8 inches from either selvage.

Performance of Test. — The machine used shall be of the inclination balance type. The capacity of the machine shall be __ pounds. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be __ inches at the start of test. The width of the jaws shall be 1½ inches or more. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the tests in each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw, breaks at the edge of the jaw, or for any reason due to faulty operation the result falls markedly below the general average, the results shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

Breaking Strength, Grab Method (1x1x3 Inches)

PREPARATION OF TEST SPECIMENS.—Six test specimens 6 inches long by 4 inches wide shall be cut, three in the direction of the warp and three in the direction of the filling, respectively. (See Fig. 2.) Care shall be taken that no two test specimens include the same threads, except for retest as specified below. No sample for testing should be taken at less than 8 inches from either selvage.

Performance of Test. — The machine used shall be of the inclination balance type. The maximum capacity of the machine shall be ___ pounds. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be 3 inches at start of test. The inside or back half of each jaw shall be 2 inches or more in width; the other half shall be 1 inch in width. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the test of each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw, breaks at the edge of the jaw, or for any reason due to faulty operation the result falls markedly below the general average, the result shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

Weight per Souare Yard

Method No. 1. — Take one yard of the sample. Weigh, and if the width is not one yard, calculate the weight per square yard.

 $\frac{\text{Weight of linear yard} \times 36}{\text{Width}} = \text{Weight of square yard.}$

Average two tests.

Method No. 2. — Take a measured portion of the material and weigh. Calculate from this area the weight per square yard.

 $\frac{1296 \times \text{weight of known area}}{\text{Area in inches}} = \text{Weight per square yard.}$

Average three tests.

Method No. 3. — Cut from the sample a specimen 2 x 2 inches, using a steel die. No specimen for testing shall be taken less than 8 inches from either selvage. Weigh on a torsion balance, adjusted to read the weight of the material in ounces per square yard.

Average three to five tests.

Weight Per Linear Yard

The weight per linear yard shall be computed from the weight per square yard, as follows:

Weight per square yard \times width = Weight per linear yard.

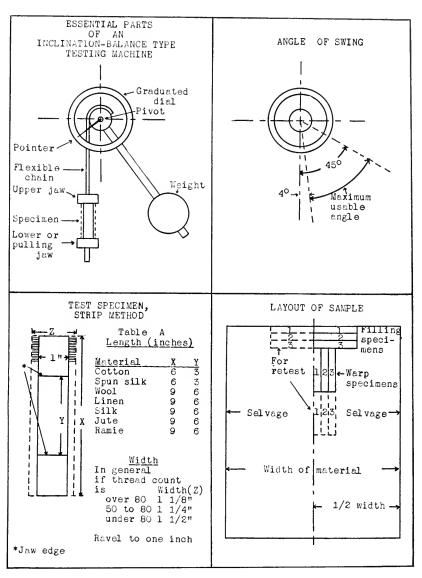


Fig. 1

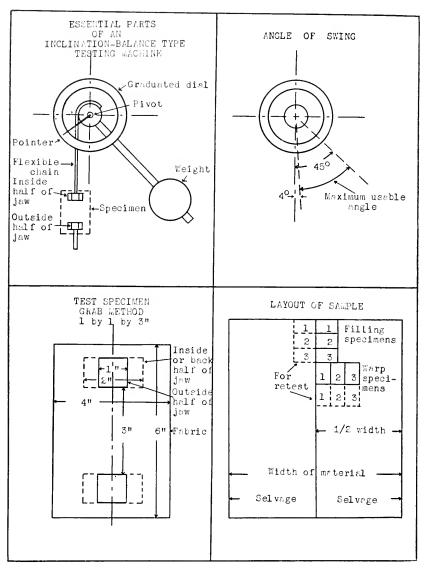


Fig. 2

Thread Count

The actual number of threads in 1 inch of width shall be counted in each direction at three different places in the cloth, and the results averaged for each direction. Where the thread count is under 50 the actual number of threads in 3 inches shall be counted for each direction at three different places in the cloth and the results reduced to threads per inch and averaged for each direction.

When the size of the sample permits, these counts shall be taken about 6 inches apart. No warp reading shall be taken at less than 8 inches from the selvage.

WIDTH

The width shall be determined by laying the material on a flat surface without tension, then measuring the distance perpendicular to the length between the selvages to an accuracy of $^{1}_{6}$ inch. Three measurements shall be taken at different places in the sample and the results averaged.

Yarn Test Methods

Extracts from American Society for Testing Materials Test Methods 1

Breaking Strength

Two test methods are given, — the skein test and the single strand test. A preferred and alternative method for each test is given. The alternative method can be used where routine testing is done on a large scale. The preferred method should always be used in case of dispute.

Skein Test (Preferred Method). — A standard skein (120-yard) shall be broken after conditioning of tubes or bobbins selected for test for twelve hours, or of skeins for at least three hours, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). An automatic yarn power tester of inclination balance type, the maximum capacity of which shall be determined in accordance with a table of machine specifications, shall be used. The speed of the pulling jaw shall be 12 inches per minute. Any varn reel having a $1\frac{1}{2}$ -vard perimeter may be used in preparing the skeins. For filling-wound varns or varns on cones, where the yarn is drawn from the top, a speed of 100 to 300 r. p. m. of reel shall be used. For warp-wound yarns or yarn on parallel tubes, where the yarn is drawn from the side, a speed of 20 to 30 r. p. m. of reel shall be used. On reels that have only one pigtail guide, the tension shall be applied by making one full wrap of the yarn around the guide. On reels using two or more guides, the yarn shall pass straight through the guide on to the reel, the angles of the guides supplying the necessary tension. Judgment must be used in regard to the amount of tension required on yarns having little or a large amount of twist. Three tests from each of four bobbins from every case of yarn shall be made.

SINGLE STRAND TEST (PREFERRED METHOD). — Single strands shall be broken after conditioning the tubes or bobbins for twelve hours in an atmosphere of 65 per cent relative humidity, 70° F. (21° C.). A single strand tester of proper capacity with the jaws set 10 inches between grips and having a speed of pulling jaw of 12 inches per minute shall be used. The average of 4 breaks from each of 10 bobbins shall be the average strength.

PLIED YARNS (PREFERRED METHOD). — Plied yarns, except standard tire cord, shall be subjected to the single strand break after conditioning for twelve hours on spools or tubes selected for test, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). Standard tire

¹ For complete Methods of Testing and Tolerances, see American Society for Testing Materials Book of Standards,

cord shall be tested under dry conditions in accordance with the Standard General Methods of Testing Cotton Fabrics of the American Society for Testing Materials.¹ A single strand tester of proper capacity with the jaws set 10 inches between grips and having a speed of pulling jaw of 12 inches per minute shall be used. The average of 4 breaks from each of 10 spools or tubes shall be reported as the average strength.

ALTERNATE METHOD. — Skeins of single strands of yarn, either single or plied, prepared in accordance with previous paragraphs, shall be broken under natural humidity conditions at time of test. The results thus obtained shall be reduced to a common basis of standard moisture regain equal to 7 per cent of the bone-dry weight.

Moisture Regain Determination. — To determine moisture regain present in samples, the several skeins shall be weighed collectively, immediately after testing, under natural moisture conditions which obtain at the time of test. The skeins shall then be placed in the basket of an oven at a temperature of 105 to 110° C. (221 to 230° F.) and dried to constant weight. The moisture regain is then computed as the percentage of the dry weight.

Correction to Standard Regain. — (a) The following formula shall then be applied, based on the assumption that the standard moisture regain of cotton yarns is 7 per cent of the dry weight; that the actual percentage regain is between the limits of 3 and 7 per cent of the dry weight; and that for 1 per cent of moisture regain there is an increase of 6 per cent in the tensile strength of the yarn.

Tensile strength corrected to standard moisture regain (Tensile strength from machine $= \frac{\text{reading}) \times 142}{100 + (6 \times \text{actual percentage})}.$

(b) Moisture regain tests shall be made periodically during the hours of testing as the natural humidity conditions are found to vary.

Strength Correction to Size. — The average tensile strength shall be corrected to the specified size as determined in accordance with the following paragraphs, by the following formula:

 $\label{eq:corrected tensile strength} \text{Corrected tensile strength} = \text{Actual average size} \\ \times \frac{\text{Actual average size}}{\text{Specified size}}.$

SIZE OR YARN NUMBER

Size of Single Yarns (Preferred Method). — The size of all standard skeins used in the skein strength test shall be determined im-

¹ American Society for Testing Materials, 1921 Book of Standards.

mediately after being broken. In case the single strand test is made, the standard skein shall be prepared for the size determination at the time of the break, and the size determined immediately. The balance to be used in this test shall be accurate to 0.25 per cent of the standard size of the yarn. When the balance does not indicate the size directly, the yarn number or size may be calculated from the formula:

$$\text{Yarn number or size} = \frac{\text{Length in yards of}}{\text{Weight in grains}} \times \frac{7000 \text{ (grains in 1 pound)}}{840 \text{ (yards of No. 1 cotton yarn per pound)}}$$

Size of Plied Yarns (Preferred Method). — In determining the size of plied yarns, the skein shall be prepared in accordance with Table I, and the size shall be determined after conditioning of tubes or spools selected for test for twelve hours, or of skeins for at least three hours, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). Any yarn reel having a 1½-yard perimeter may be used in preparing the skeins. For filling-wound yarns or yarn on cones, a speed of 100 to 300 r. p. m. of reel shall be used. For warp-wound yarns or yarn on parallel tubes, a speed of 20 to 30 r. p. m. of reel shall be used. On reels that have only one pigtail guide, the tension shall be applied by making one full wrap of the yarn around the guide. On reels using two or more guides, the yarn shall pass straight through the guides on to the reel, the angles of the guides supplying the necessary tension.

Table I

Equivalent Singles Size	Yards for Size	Conversion Formula	Number of Tests Per Case of Yarn
20's and above	60 24	$\frac{\text{Size}}{2} = \text{ply size}$ $\frac{\text{Size}}{5} = \text{ply size}$ $\frac{\text{Size}}{5} = \frac{1}{5}$	3 from each of 4 spools or tubes 3 from each of 4 spools or tubes
Below 3's	12	$\frac{\text{Size}}{10} = \text{ply size}$	3 from each of 4 spools or tubes

Size of All Yarns (Alternate Method). — All yarns used in the alternative method of testing for strength shall be sized under natural humidity conditions at the time of test. Plied yarns shall be prepared in skeins in accordance with Table I. The moisture regain shall then be determined and results corrected to a common basis of standard

moisture regain equal to 7 per cent of the bone-dry weight by means of the formula:

Size corrected to standard moisture =
$$\frac{\text{Size} \times (100 + \text{actual percentage regain})}{107}.$$

The average of these tests shall be the average size of case, bale, ball chain or beam warp of yarn.

Twist

Twist of Single Yarns. — No precision method of determining the twist of single yarns has been developed.

Twist of Plied Yarns. — The ply twist in yarns of two or more ply shall be determined on any standard twist counter with jaws set 10 inches apart. The strands shall be clamped in jaws under a definite tension by attaching weights. The tension to be used shall be determined from the formula:

Tension, in grams =
$$\frac{156 \text{ (Constant)}}{\text{Equivalent singles size}}$$

The constant of 156 represents a tension which should be placed on yarn or cord to hold it sufficiently taut and still not remove any stretch.

Number of Tests. — Three twist tests on each of four packages of yarn from each case shall be made, and the average of these twelve tests shall be the average of the case.

Analysis of Cloth for Tariff Purposes

Treasury Decisions 33823 and 34255

Under the provisions of paragraph 253 the rates of duty are to be ascertained according to the average number of the yarns in the condition in which imported. The length of the yarn is to be counted as equal to the distance covered by it in the cloth, all clipped threads to be measured as if continuous, and all ply yarns to be separated into singles and the count taken of the total singles; any excessive sizing to be removed by boiling or other suitable process. The number of the yarn is the English number of 840 yards to a pound for a No. 1 yarn.

The average number of the yarn may be found without unraveling the fabric, and is the quotient of the division of the total thread length by the weight in the proportion of 840 yards of yarn equaling 1 pound of 7,000 grains or 1 yard of yarn equaling $8\frac{1}{3}$ grains, which is equivalent

to a No. 1 yarn.

The following simple formula may be used: Multiply the count of threads per square inch by the number of square inches in the sample used, this product to be multiplied by 100; then divide the product thus obtained by the weight of the sample in grains multiplied by 432. The quotient will give the number of the yarn. For example, take a sample of cotton cloth 4 inches square, which equals 16 square inches, having 28 warp and 28 woof threads, a total of 56 threads to the square inch, and weighing 8.6 grains. The formula applied would be as follows:

$$\frac{56\times16\times100}{8.6\times432}$$
 = 24, the number of the yarn.

The formula may be further simplified by weighing a square yard of said cloth and dividing the number of threads per square inch by 1/300 of the weight of a square yard in grains.

Samples of all cotton cloth should be forwarded to the United States appraiser at New York on the C. V. R. cards, under the provisions of T. D. 31936. When a square yard or more is available for test the following formula may be used:

Number of threads per square inch $\times 24$ Number of ounces per square yard $\times 35$ =Average number of yarn,

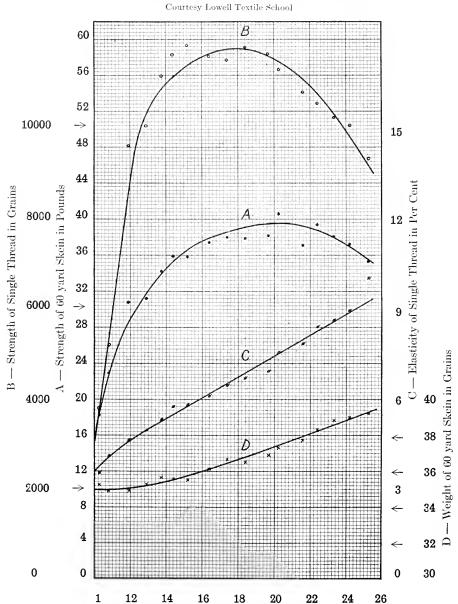
An addition of $8\frac{1}{2}$ per cent to be made to bone-dry weight in ascertaining the number of the yarn in cotton cloth.

Breaking Weights of American Yarns spun from American Cotton

By George Draper

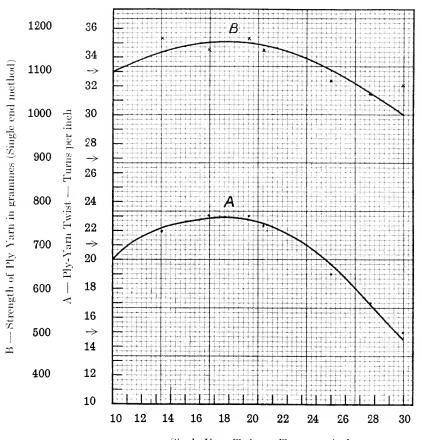
				Dy Georg	e Draper				
		OLD		New		1		OLD	New
120 Yards Weight (Grains)	Number of Yarn	Breaking Weight of Warp Yarn	Breaking Weight of Warp Yatn	Brenking Weight Combed Warp	Breaking Weight Soft Twist Yarn	120 Yards Weight (Grains)	Number of Yarn	Breaking Weight of Warp Yarn	Breaking Weight of Combed Warp
1,000 500 333.3 250 166.7 142.9 125 111.1 100 90.9 83.3 76.9 71.4 66.7 62.5 58.8 55.6 52.6 47.6 45.5 41.7 40 38.5 37 35.7 35.7 35.7 35.7 35.7 35.7 35.7	1 2 3 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 6 17 7 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 5 36 37 38 39 40 41 1	530 410 330 275 237.6 209 186.5 168.7 154.1 142 131.5 122.8 115.1 108.4 102.5 97.3 92.6 88.3 83.8 79.7 75.9 72.4 69.2 66.3 63.6 61.3 59.2 57.3 55.6 51.2 48.7 47.6 46.5 45.5 44.6 43.8	$\begin{array}{c} -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ $	$\begin{array}{c} -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ $	$\begin{array}{c} -\\ 620+\\ 462\\ 367\\ 304-\\ 258+\\ 198+\\ 177\\ 160-\\ 145+\\ 133+\\ 114-\\ 106-\\ 993-\\ 87\\ 82\\ 77+\\ 73-\\ 666+\\ 63\\ 60+\\ 57-\\ 53-\\ 50+\\ 48+\\ 46-\\ 43-\\ 441+\\ 40-\\ 38+\\ 37\\ 36-\\ 34+\\ 33+\\ 33+\\ \end{array}$	19.6 19.2 18.9 18.5 17.9 17.5 17.2 16.7 16.4 16.9 15.6 15.4 15.2 14.9 14.5 14.3 14.1 13.9 13.7 13.5 13.3 13.2 12.7 12.5 12.4 12.2 14.9 11.8 11.6 11.6 11.6	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 88 89 89 80 80 80 80 80 80 80 80 80 80	36.6 36.1 35.5 34.9 34.4 33.8 32.3 31.7 31.3 30.8 29.6 29.2 28.5 28.2 27.4 27.1 26.8 26.5 25.8 24.9 24.6 24.3 24.3 24.3 22.8 22.8 22.8 22.8 22.8 23.4 24.9 23.7 24.6 24.3 24.6 22.6 22.8 22.8 22.8 23.7 24.9 24.6 24.3 24.9 25.6 26.2 26.2 27.8 27.8 27.8 27.8 27.8 27.8 27.8 27	$\begin{array}{c} 47-\\ 46\\ 45+\\ 44+\\ 43+\\ 42-\\ 41-\\ 40+\\ 39+\\ 33-\\ 37-\\ 36\\ 35+\\ 33-\\ 32+\\ 33-\\ 32+\\ 32-\\ 31+\\ 33-\\ 32-\\ 32+\\ 29-\\ 27-\\ 26-\\ 26-\\ 26-\\ 25-\\ 25-\\ 25-\\ 25-\\ \end{array}$
23.8 23.3 22.7 22.2 21.7 21.3 20.8 20.4	42 43 44 45 46 47 48 49 50	43 42.2 41.4 40.7 40 39.3 38.6 37.9 37.3	46+ 45+ 44+ 43+ 42+ 41+ 41- 40- 39	58— 56+ 55+ 54— 53— 51+ 50+ 49+ 48	$\begin{array}{r} 32 + \\ 31 + \\ 30 + \\ 29 + \\ 28 + \\ 27 + \\ 27 - \\ 26 - \\ 25 \end{array}$	10.9 10.8 10.6 10.5 10.4 10.3 10.2 10.1	92 93 94 95 96 97 98 99 100	$\begin{bmatrix} 21.5 \\ 21.3 \\ 21.2 \\ 21 \\ 20.7 \\ 20.5 \\ 20.4 \\ 20.2 \\ 20 \end{bmatrix}$	24+ 24- 24- 23+ 23+ 23- 23- 22+ 22

Relation of Strength and Elasticity to Twist in a 13^{8} Yarn



Relation of a 2-Ply 13^S Yarn Strength to Single and Ply Twist

Courtesy Lowell Textile School



Single Yarn Twist — Turns per inch

Correction Tables for Converting the Apparent Breaking Strength to a 6.5 Per Cent Basis

The "Correction Rates" of strength increase for various fabries has been computed by Prof. George B. Haven 1 to be as follows:

Fabric	Weight of Fabric in Ounces per Square Yard at 6 Per Cent Regain	Correction Rate
Cheesecloth	1.54	0.51
Osnaburg	8.10	2.67
Airplane wing fabrie	4.00	1.32
Sheeting	5.48	1.81
Tire duck	17.30	5.71
Belt duck	29.10	9.60
Heavy duck	49.34	16.28

Correction tables for three of these fabries have been made, based on the following formula:

Corrected breaking strength = $\frac{\text{Apparent strength} \times [100 + (\text{``X''} \times 6.5)]}{100 + (\text{``X''} \times \text{actual regain at test})}$. Where for sheeting X = 1.81 for regains between 3 and 9 per cent.

Osnaburg X = 2.67 for regains between 3 and 9 per cent.

Tire fabric X = 7.0 for regains between 3 and 6.5 per cent.

X = 4.0 for regains between 6.5 and 9 per cent.

¹For complete data see National Association of Cotton Manufacturers' Transactions No. 110, pages 117-154.

Correction Table for Converting the Apparent Breaking Strength of Sheeting Weighing Approximately 5.5 Ounces per Square Yard to a 6.5 Per Cent Regain Basis

Dry Weight	6.00 6.50 7.00 7.50 8.00 8.50 9.00	35.0 34.7 34.4 34.2 33.9 33.	37.5 37.2 36.9 36.7 36.4 36.	40.0 39.7 39.3 39.1 38.8 38.	4.5.0 44.6 41.3 44.0 43.6 43.3	47.5 47.1 46.7 46.4 46.0	50.0 49.6 49.2 48.9 48.5	52.5 52.1 51.6 51.3 50.9	5 55.0 54.6 54.1 53.8 53.3 52.9	57.5 57.0 56.6 56.2 55.S	60.0 59.5 59.0 58.6 58.2 57.	62.5 - 62.0 - 61.5 - 61.1 - 60.6 - 60.	65.0 64.5 64.0 63.6 63.0 62.	1 04.3 04.0 09.4 09.0 09.3 04.8 07.0 09.5 08.8 08.4 08.0 07.3	72.5 71.9 71.3 70.9 70.3	6 75.0 74.4 73.7 73.3 72.8 72.1	2.67 7.67 2.97 76.9	80.0 79.4 78.7 78.9 17.6	82.5 81.8 81.1 80.6 80.0	8 85.0 84.4 83.6 83.1 82.4 81.7
CENTAG	5.00 5.50	35.9 35.	38.4	41.0 40.	5 46.1 45.8	48.7 48.	51.2 50.	53.8	36.8 56.0	58.9 58.	61.5 61.	64.1	. 66.6 6.66.6	71.8 71.9	74.3 73.	76.9 76.3	10.4 1.8.	S2.0 - S1	S4.5 — S3.	8 87.2 86.5
	4.00 4.50	.5 36.	ડો ! જું :		16.9 16.5	.5 49	1 51	7 24	57.3 56.8	69 	.5 62.	.1 64		72.9 72.3	.5 75.	78.1 77.5	S0	25	.0 	88.6 87.8
	3.00 3.50	36.		7 =	47.7	50.4 49.8	55	55	58.4 57.8	<u> </u>	63	3	25	74.2 73.4	76.8 76.2					90.1 89.2
ACTUAL BREAK		35.0	87.55 50.55	0 kg	15.0	47.5	20.0	52.5	55.0 7.0	o.70	0.09	62.5	0.88 0.48	70.0	72.5		6.77	0.00	S2.5	85.0

Correction Table for Converting the Apparent Breaking Strength of 30-inch 7-ounce Osnaburg to 6.5 Per Cent Regain Basis ಡ

CTUAL						THE STATE OF THE S							
Вкелк	3.00	3.50	4.00	4.50	5.00	5.50	0.00	6.50	7.00	7.50	8.00	8.50	9.00
0.09	65.2	64.4	63.6	62.8		61.4					58.1		
62.5	8.19	67.1	66.2	65.4	64.7	63.8	63.2	62.5	61.7	0.19	£:09	59. S	59 1
65.0	9.02	8.69	68.89	68.0		4.99					65.9		
67.5	53 55	72.5	21.6	2.02		0.69					61.19		
20.0	0.97	2.65	74.2	ee.	72.5	21.6			69	68.4	2.79	6-99	
72.5	18.1	6.77	8.97	6.22	75.0	74.1			71.6	20.8	70.2		68.6
75.0	81.4	80.6	79.5	78.57	11.1	8.92			74.0	- 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70			
27.5	84.2	83.3	S. 2. 2	SI.1	80.2	61.67			20.5	12.7			
80.0	6.98	85.9	8.48 8.00	% %	85. S. S.	81.8 S	6.0%	80.0	0.62	1.8.1	11.1	- 1.92	
82.5	89.6	88.6	87.5	S6.4	85.4	84.4	85. 4.	85.15	<u>8</u>	9.0%	x: 67	58.5	
85.0	92.2	91.3	0.06	89.0		87.0	0.98				51 52 52 52 52 52 52 52 52 52 52 52 52 52	21 21	92
87.5	95.0	94.0	92.7	91.6		2.68							
0.06	27.76	9.96	95.4	2. ±6:		95.0							
92.5	100.4	7.66	0.86	6.96	95.8	97.6	93.5	92.5	91.4	90.3	5.68 5.08	X	5
95.0	103 1	10.5	100	7 00		6 20							

Correction Table for Converting the Apparent Breaking Strength of $17 \frac{1}{4}$ -Ounce Tire Fabric to a 6.5 Per Cent Regain Basis

					PERCENTAGE	OF	REGAIN TO DRY	RY WEIGHT					
Виелк	3.00	3.50	4.00	4.50	5.00	5.50	00.9	6.50	7.00	7.50	8.00	S. 50	9.00
105	123.7	120.6	117.7	114.9	112.3	109.7	107.3	105.0	103.3	101.7	100.2	98.7	98.3
110	129.6	126.4	123.3	120.4	117.6	115.0	112.4	110.0	108.2	106.4	105.0	103.4	101.9
115	135.5	132.1	128.9	125.9	123.0	120.2	117.5	115.0	113.1	111.5	109.8	108.1	106.5
120	141.4	137.9	134.5	131.0	128.3	125.4	122.6	120.0	118.0	116.3	114.6	112.8	111.1
125	147.3	143.6	140.1	136.8	133.7	130.6	127.8	125.0	122.9	121.2	119.3	117.5	115.8
130	153.1	149.3	145.7	142.3	139.0	135.9		130.0	127.9	126.0	154.1		120.4
135	159.0	155.1	151.3	147.8	144.3	141.1		135.0	132.8	130.S	128.9		125.1
140	164.9	160.8	156.9	153.2	149.7	146.3	143 1	140.0	137.7	135.7	133.6	131.6	129.7
145	170.8	166.6	162.5	158.7	155.0	151.5		145.0	142.6	140.5	138.4		134.3
150	176.7	172.3	168.1	164.2	160.4	156.8		150.0	147.6	145.4	143.2		138.9
55	183	178 1	173.7	169 6	165.7	162.0	158 4	155 0		150.9	147.0	145.7	
160	188.5	183.8	179.4	175.1	171.1	167.2	163.5	160.0		155.0	152.6	150.4	
165	194.4	189.5	185.0	180.6	176.4	172.4	168.6	165.0	163.3	155.9	157.4	155.1	152.9
170	200.3	195.3	9.061	186.1	181.8	177.7	173.7	170.0		164.7	162.2	159.8	
175	206.1	201.0	196.2	191.5	187.1	182.9	178.9	175.0		169.6	167.0	164.5	
180	212.0	206.8	201.8	197.0		188.1	184.0	180.0	177.1	174.4	8.171		166.8
185	217.9	212.5	207.4	202.5	197.8	193.3	189.1	185.0	182.0	179.2	176.6	173.9	171.4
190	223.8	218.3	213.0	208.0		198.6	194.2	190.0	186.9	184.1	181.3		176.1
195	229.7	224.0	218.6	213.4		203.8	199.3	195.0	191.9	188.9	186.1		180.7
500	235.6	229.8	224.2	218.9		209.0	204.4	200.0	8.961	193.8	190.9		185.3
905	2 116	935 5	8 066	994.4	910.9		900 5	905.0	901.7	108	105 6	100 7	
016	947.4	9.71.9	935.4	8 066	954.5		914.6	910.0	9.906	903.4	T 006	197.4	
515	253.3	947.0	0.056	0.00 0.00 0.00 0.00	990.0		219.0	915.0	911.5	1000 1000 1000 1000 1000 1000 1000 100	905.9	1.000	
220	259.2	252.7	246.6	240.8	235.2	229.9	224.9	220.0	216.5	10.00	210.0	206 8.905	203.8
225	265.1	258.5	252.2	246.3	240.6	235.2	230.0	225.0	221.4	217.9	214.7	211.5	208.4
-:	-		_										

Correction Table for Converting the Apparent Breaking Strength of $17^{1/4}_{-4}$ -Ounce Tire Fabric to a 6.5 Per Cent Regain Basis — (Continued)

	9.00	213.1 217.7 220.3 226.9 231.6	236.2 240.8 245.5 250.1	259.4 264.0 268.6 273.2 277.9	282.5 287.1 291.8 296.4 301.0	305.7 310.3 314.9 319.5 324.2
	8,50	216.2 220.9 220.9 230.3 235.0	239.7 241.4 249.1 253.8 258.5	263.2 267.9 272.6 277.3 282.0	286.7 291.4 296.1 300.8 305.5	310.2 314.9 319.6 324.3 329.0
	8°.00	219.7 224.4 229.2 234.0 238.7	248.3 248.3 253.0 257.8 262.6	267.4 272.1 276.9 281.7 286.4	291.2 296.0 300.7 315.5	315.1 319.8 324.6 329.4 334.1
	7.50	222-2 222-7 232-6 237-4 242-3 3-4 242-3	247.1 251.9 256.8 262.6 266.5	271.3 276.1 281.0 285.8 290.7	295.5 300.3 305.2 311.9	319.7 324.5 329.4 334.2 333.1
	2.00	226.3 231.3 241.2 246.1	251.0 255.9 260.8 265.7 270.6	275.6 280.5 285.4 295.4	300.2 305.1 310.0 315.0 319.9	324.8 329.7 331.6 339.6 341.5
DRY WEIGHT	6.50	230.0 235.0 240.0 245.0 250.0	255.0 260.0 265.0 270.0 275.0	280.0 285.0 296.0 300.0	305.0 310.0 315.0 320.0 325.0	330.0 335.0 340.0 345.0 350.0
AIN TO DE	9.00	235.1 240.2 245.3 250.4 255.5	260.6 265.7 270.8 276.0 281.1	286.2 291.3 301.5 306.6	311.7 316.8 321.9 327.1	337.3 342.4 347.5 352.6 357.7
PERCENTAGE OF REGAIN TO	5.50	240.4 245.6 250.8 256.1 261.3	266.5 271.7 277.0 282.2 287.4	292.6 297.9 303.1 308.3	318.8 324.0 329.2 334.4 339.7	344.9 350.1 355.3 360.6 365.8
PERCENT	5.00	245.9 251.3 256.6 262.0 267.3	272.7 278.0 278.0 288.4 288.7 291.0	299.4 304.7 310.1 315.4 320.7	326.1 331.5 336.8 342.2 347.5	352.8 358.2 363.5 363.5 374.2
	4.50	251.7 257.2 262.7 268.1 273.6	279.1 284.6 290.0 295.5 301.0	306.5 311.9 317.4 322.9 328.3	333.8 339.3 344.8 350.2 355.7	361.2 366.7 372.1 377.6 383.1
	4.00	257.8 263.4 269.0 274.6 280.1	285.8 291.5 297.1 302.6 308.3	313.9 319.5 325.1 330.7 336.3	341.9 347.5 353.1 358.7 364.3	369.9 375.5 381.1 386.7 392.3
	3.50	264.2 270.0 275.7 281.4 287.2	292.9 298.7 304.4 310.2	321.7 327.4 333.1 338.5 344.6	350.4 356.1 361.3 367.6 373.3	379.1 384.8 390.6 398.3 402.1
	3.00	270.9 276.8 282.7 288.6 294.5	300.4 306.3 312.1 318.1 323.9	329.8 335.7 341.6 347.5 353.4	359.3 365.2 371.1 376.9 382.8	388.7 394.6 400.5 406.4 412.3
No.	BREAK	230 235 245 245 250	255 256 250 250 250 250	250 250 302 302 302 302	305 310 315 320 325	330 330 345 350

Correction Table for Converting the Apparent Breaking Strength of 17 %-Ounce Tire Fabric to a 6.5 Per Cent Regain Basis — (Concluded)

-					PERCENT	FAGE OF RE	PERCENTAGE OF REGAIN TO DRY	RY WEIGHT					
Виелк	3.00	3.50	4.00	4.50	5.00	5.50	00.9	6.50	7.00	2.50	8.00	8.50	9.00
355	418.2	407.8	897.9	388.5	379.6	371.0	362.8	355.0	349.5	343.9	338.9	333.7	328.8
360	424.1	413.6	403.5	394.0	384.9	376.2	367.9	360.0	354.4	348.7	343.7	338.4	333.4
365	429.9	419.3	409.2	399.5	390.3	381.5	373.1	365.0	359.4	353.6	348.4	343.1	338.1
370	435.8	425.0	414.8	405.0	395.6	386.7	378.2	370.0	364.3	358.4	353.2	347.8	342.7
375	441.7	430.8	420.4	410.4	401.0	391.9	383.3	375.0	369.2	363.3	358.0	352.5	347.3
380	447.6	436.5	426.0	415.9	406.3	397.1	388.4	380.0	374.1	368.1	362.8	357.2	351.9
385	453.5	442.3	431.6	421.4	411.7	405.4	393.5	385.0	379.0	372.9	367.5	361.9	356.6
390	459.4	448.0	437.2	426.9	417.0	407.6	398.6	390.0	383.9	8.778	372.3	366.6	361.2
395	465.3	453.8	442.8	432.3	422.3	412.8	403.7	395.0	388.9	382.6	377.1	371.3	365.8
400	471.2	459.5	448.4	437.8	427.7	418.0	408.7	400.0	393.8	387.5	381.8	376.0	370.5
2	1)			_	_			

Table
olation
Interpo

	1.85 2.78 3.70 4.63
	.1.25.8.4 8.8.8.88 8.8.88
	. 1.92 2.88 4.88 4.80 4.80
	. 98 1.96 4.99 4.90
	1.00 2.00 3.00 5.00
	21.02 2.04 3.06 5.10
•	1.04 2.08 3.12 5.20
1	1.06 2.12 3.18 5.30
	1.08 2.16 3.24 5.40
	1.12 2.24 3.36 4.48 5.60
	1.14 2.28 3.42 5.70
	2.36 2.36 4.72 5.90
	92846
	—aaa4a

Standard List of Wide and Sail Duck

The following table shows a list of ducks approved as standard by the Division of Simplified Practice and the Cotton Duck Association

[Pounds per Yard]

Width (inches)	2,0	1.0	п	61	က	4	75	9	L	æ	6	10	11	12	Width (inches)
25 57 50 50	1.250 1.364	1.187	1.125 1.227 1.329	1.062 1.159 1.256	1.000 1.091 1.182	.938 1.023 1.108	.875 .955 1.034	.812 .886 .960	.750 .818 .886	.687 .750 .812	.625 .682 .739	.562 .614 .665	. 500 . 545 . 591	.437	8122
33 35 35 35	1 1 1	1 1 1	1.433 1.534 1.636	1.352	1.273 1.364 1.455	1.193 1.278 1.364	1.114 1.193 1.273	1.034 1.108 1.182	.955 1.023 1.091	.875 .937 1.000	.795 .852 .909	7167	.636 .682 .727	.557 .597 .636	33.38
38 38 40	1 1 1	111	1.841 1.943 2.045	1.739 1.835 1.932	1.636 1.727 1.818	1.534 1.619 1.705	1.432 1.511 1.591	1.330 1.403 1.477	1.227 1.295 1.364	1.125 1.187 1.250	1.023 1.080 1.136	.920 .972 1.023	818. 498. 909.	.716 .756 .795	88.84 88.04
244 244 484	111	1 1 1	2.148 2.250 2.454	2.028 2.125 2.318	1.909 2.000 2.182	1.790 1.875 2.045	1.670 1.750 1.909	1.551 1.625 1.773	1.482 1.500 1.636	1.312 1.375 1.500	1.192 1.250 1.364	1.074 1.125 1.227	.955 1.000 1.091	.835 .875 .955	444 444
50 54 60	1 1	111	2.557 2.761 3.068	2.415 2.608 2.898	2.273	2.301 2.557	1.989 2.148 2.386	1.847 1.994 2.216	1.705	1.562 1.687 1.875	1.420 1.534 1.705	1.278 1.381 1.534	1.136 1.327 1.364	.994 1.074 1.193	8 % 9 8 % 9
66 72 84	111	111	3.375 3.682 4.295	3.187 3.477 4.057	3.273 3.273 3.818	2.812 3.068 3.580	2.625 2.864 3.341	2.437 2.659 3.102	2.250 2.455 2.864	2.062 2.250 2.625	1.875 2.045 2.386	1.687 1.841 2.148	1.500 1.636 1.909	$\begin{array}{c} 1.312 \\ 1.432 \\ 1.670 \end{array}$	95.7.2 8.7.2
90 96 102	1 1 1	111	4.909	4.636	4.364	4.091	3.818	3.545	3.273	3.000	2.727	2.455 2.610	2.182	$1.790 \\ 1.909 \\ 2.028$	90 96 102
108 112 120	1.1.1	111	6.136	5.216	4.909	4.602	4.295	3.989 3.852 4.432	3.682	3.375	3.068	2.761 3.068	2.455	3.148	108 112 120
132	1-1	1 1	6.750	6.374	6.000	5.624 6.136	5.250	4.874 5.318	4.910	4.124	8.750 4.090	8.374	3.000	2.624	132 144

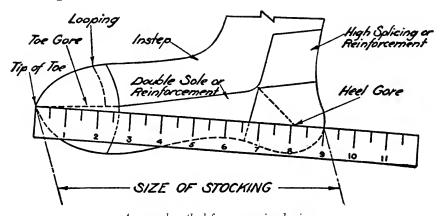
"The numbers in Roman type represent regular fabries; all others, including widths intermediate to those listed, are specials. Only the list of regular numbers and widths to be carried in stock. Specials will be made up on order only in units of not less than 500 yards; and as far as possible the manufacture of specials will be restricted to units of 1,500 yards as representing the minimum at which operating efficiency is obtainable."

Standard Measurement of Hosiery Sizes

Bureau of Standards Circular No. 149

The method of measuring the size of circular knit hosiery may be defined as follows: After the hose has been boarded and pressed and appears in a flat and unwrinkled condition, place a ruler along a line in which the tip of the toe and the bottom of the heel gore are connected. The measured distance along this line from the tip of toe to the intersection with the back of the heel to the nearest half inch is the hosiery size. Preference should be given to the lower number; that is, if the exact measurement, as found by the system, is $10\frac{1}{4}$ inches exactly, it is desirable to call the stocking size 10.

Diagram showing application of ruler between the points selected, denoting size.



Approved method for measuring hosiery

This diagram shows the application of ruler to the hosiery

Standard Size of Bed Blankets

COTTON, WOOL, COTTON AND WOOL MIXED

The following sizes of bed blankets were adopted as standard by the Division of Simplified Practice and representatives of the blanket manufacturers on June 2, 1924:

					Sizes II	N INCH	ES					
	1	Width	1		Length			1	Width			Length
54					76	66						84
60				.	76	66					.	90
60				.	80	68						80
60				. }	84	70					.	80
64				.	76	72						84
36					80	80					.	90

Contract Sales Note for Staple Gray Goods

Form approved and adopted by The National Association of Cotton Manufacturers and American Cotton Manufacturers' Association, 1910

Number

Cents per vard.

Sold for account of

To Quantity:

 $\begin{array}{ccc} \text{yards (variation not to exceed 2 } \% \text{ allowed)} & \text{Allowable variation in} \\ \text{pieces of} & \text{yards each} & \text{length of pieces } if \\ \text{bales of} & \text{yards each} & \text{special.} \end{array}$

In addition, buyer to take and seller to deliver if made:

\[
\begin{align*}
\times & Seconds @ & Tailings at stated contract price if contract is not renewed.
\end{align*}

Quality:

Time of delivery: from date hereof

during each week, commencing week ending during each month, beginning in the month of

Width in inches:

Count per inch: Warp Filling

Weight: $\begin{cases}
\text{No shipment to average } \\
\text{No bale to be over } 1\% \\
\text{No piece to be over } 3\% \\
\end{cases}$ than Yards to the pound.

Price: Terms of payment:

Net days from date of delivery.

Net days from date of delivery less % for payment within days from date of delivery.

Place of delivery:

F. O. B. to carrier at F. O. B. with

freight allowance.

Special conditions: Shipping instructions:

If the production of the seller shall be curtailed during the time above named, by strikes, lockouts, or unavoidable casualties, the deliveries shall be made and accepted in proportion to the production.

The provisions of paragraphs I, II and III, and the allowable variations from specifications as adopted by The American Cotton Manufacturers' Association and The National Association of Cotton Manufacturers, all as printed on the back hereof, are accepted and agreed to as a part of this contract, unless otherwise stated herein.

This sale note is the entire contract between the buyer and seller, and any alteration in or changes from the printed form of this contract must appear on it in writing.

To (Signed)

¹ See following page.

Paragraph I. Passing of Title on Delivery. — Unless otherwise specified, the title to goods sold passes to the buyer (subject to the right of stoppage in transitu):—

a. Upon delivery F. O. B. to earrier, consigned to buyer, and thereafter goods

are at buyer's risk.

b. Upon arrival of goods at destination and delivery to buyer of bill of lading or of goods, in the case of goods to be delivered F. O. B. elsewhere than to carrier.

c. Upon delivery of indersed bill of lading or of goods, in the case of goods

consigned to seller's order.

d. Upon the separation of the goods and holding subject to buyer's order (the invoice to follow by due course of mail), in the case of goods to be held or if buyer fails to give shipping instructions.

Paragraph II. Storage and Insurance. — Goods invoiced and held subject to buyer's orders shall be at buyer's risk, but covered by fire insurance effected

by sellers in reputable companies.

Paragraph III. Rejections and Claims. — The buyer eannot reject the goods for delay in delivery unless he notifies the seller within five business days from receipt of bill of lading, or of invoice if goods are to be held. When contract calls for delivery in instalments, the buyer cannot cancel the contract for any default in any one or more instalments not amounting to a substantial breach of contract, but may cancel or replace at seller's expense any delivery that is delayed.

Buyer cannot reject goods for defects in quality or other like defaults (a) if he cuts or converts them, nor (b) unless he notifies seller within ninety days from receipt by him or at finishing works of goods not held, or within ninety days after date of invoice if goods are invoiced and held; nor (c) unless such defects

amount to a substantial breach of contract.

Loss of right to reject does not deprive the buyer of his right to claim damages, if any; but no recovery shall be had on any claim not made within one year from receipt of goods or from date of invoice if goods are held.

Allowable Variations from Contract Specifications.

Width. — The width shall not vary anywhere by more than $\frac{3}{8}$ of an inch below the stipulated width, nor more than $\frac{5}{8}$ of an inch above. The width shall not be uniformly less than the stipulated width, but must, in a majority of places in each piece, be equal to, or greater than, the stipulated width. Goods shall be measured at right angles to the selvages when laid open on a flat, horizontal surface and smoothed out by hand, but not stretched.

Warp Count. — Except within four inches of each selvage, (where exclusive of the selvage, the count must approximate that stipulated) the number of warp threads per inch shall not vary anywhere by more than one thread per inch below the stipulated count, nor by more than two threads per inch above. The number of threads in each piece must equal the stipulated count multiplied

by the stipulated width plus the extra threads used in the selvage.

Filling Count. — The number of threads in the filling, or weft, shall not vary anywhere by more than three threads per inch below the stipulated count, nor by more than four above. In the case of sateens, when the count of filling exceeds the count of the warp, the allowance for variation above specified shall be increased by the same percentage that the filling count exceeds that of the warp count. In any case including sateens, the filling count per inch shall not run below the stipulated count throughout the piece, but must, in a majority of places in each piece, equal or be more than, the stipulated count.

Weight. — In case of controversy regarding the weight of goods, decision shall be based on goods which have been exposed for twenty-four hours to normal atmospheric conditions approximating a temperature of 70 degrees F. and a

humidity of 70 per cent.

Thrown Silk Rules to govern Transactions between Buyers and Sellers in the United States of America

Taken from Rules published by the Silk Association of America

ARTICLE I

General

Section 1. Nothing in the following rules shall be construed as waiving the right in individual transactions to make any special contrary agreement, but the rules shall govern in cases where no such special contract exists. . . .

ARTICLE II

Sales

Section 1. Sales of specified or identifiable lots of thrown silk, either from stock or for future delivery are cancelled by destruction or loss of such silks by fire, flood or any other causes beyond control of Seller, prior to delivery dates as called for by the contract. . . .

ARTICLE III

Deliveries

Section 1. Sales for delivery on a given date, demand delivery on the date specified. . . .

ARTICLE IV

Weights

Section 1. In the absence of stipulation as to weight, invoice weight at time of delivery or readiness to deliver at point of shipment shall apply, provided the weight does not exceed conditioned weight on European silks, conditioned weight plus 2% on all other silks, except Tsatlee Rereels, Haining Rereels, Native China Rereels, and other similar silks, which shall be conditioned weight plus $2\frac{1}{2}\%$

ARTICLE V

Boil-Off

Section 1. Boil-off percentage stipulations on all kinds of thrown silk are entirely a matter of mutual agreement between Buyer and Seller. . . .

ARTICLE VI

Twist

Section 1. In the absence of any twist stipulations, the following turns per inch shall govern all sales of thrown silks made from 13/15 and/or 14/16 denier raw silk:

In the case of all other classes of thrown silk, the twist must be stipulated in contract. . . .

ARTICLE VII

Drammage

Section 1. In case of stipulated drammage, the variation above or below the average stated must not exceed 3%. In the case of silks like Tsatlee Rereels, Haining Rereels, Tussah and other similar grades, variation must be by special agreement between Buyer and Seller. . . .

ARTICLE VIII

Length of Skeins

Section 1. In the absence of stated length of skeins, the following will apply:

2-thread Organzine		20,000 yards
3-thread Organzine		10,000 yards
2-thread Tram .		15,000 yards
3-thread Tram .		10,000 yards
4-thread Tram .		7,500 yards
5-thread Tram .		5,000 yards

The above lengths will apply on thrown silk made from 13/15 and/or 14/16 denier, European, Japan, Canton and China Filature Silks only. On all other grades of thrown silk delivered in skeins, the length is optional with Seller unless stipulated in contract. . . .

ARTICLE IX

Responsibility of Buyer and Seller

Section 1. The Seller is under obligation to deliver thrown silks of contract quality, size, weight, etc., as defined in these rules. The Buyer is equally under obligation to examine and test the silk received or tendered for delivery under contract and promptly pass upon its quality, size, weight, etc., and its compliance with the contract. . . .

ARTICLE X

Selling Terms

Section 1. The rate of discount on thrown silk is 6 per cent per annum. . . .

ARTICLE XI

General Terms

Section 1. All prices are understood to be F. O. B. Seller's shipping point. . . .

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OFFICERS AND MEMBERS OF THE ASSOCIATION

OFFICERS OF THE ASSOCIATION FROM THE FIRST ORGANIZATION

PRESIDENTS

PALS	IDENIS
Ezekiel A. Straw . 1865-78	David M. Thompson . 1900-01
Amos D. Lockwood . 1878-80	Charles H. Fish 1901-03
John Kilburn 1880-83	Herbert E. Walmsley 1903-05
William C. Lovering . 1883-85	James R. MacColl . 1905-07
Richard Garsed 1885-86	WM. D. HARTSHORNE . 1907-08
Joseph S. Ludlam . 1886–88	Charles T. Plunkett 1908-10
Henry F. Lippitt . 1888–89	Franklin W. Hobbs . 1910-12
Walter E. Parker . 1889–92	Edwin F. Greene . 1912–14
Robert McArthur . 1892-94	Albert G. Duncan . 1914–16
Edward W. Thomas . 1894-95	Albert Farwell Bemis 1916–18
Alfred M. Goodale . 1895-96	W. Frank Shove 1918-20
ARTHUR H. LOWE . 1896-97	Russell B. Lowe . 1920–22
Russell W. Eaton . 1897-98	Robert Amory 1922-24
Stephen A. Knight . 1898–99	Morgan Butler 1924-25
Frederick E. Clarke 1899-99	WILLIAM B. MACCOLL 1925-
VICE P	RESIDENTS
William A. Burke . 1865-73	Alfred E. Adams . 1902-03
Amos D. Lockwood . 1865-77	James R. MacColl . 1903-05
John C. Palfrey . 1873–76	WM. D. HARTSHORNE . 1903-07
EDWARD ATKINSON . 1876-78	George A. Ayer 1905-07
A. G. Cumnock 1877–80	Charles T. Plunkett 1907-08
Charles Nourse 1878-81	George Otis Draper , 1907-11
WILLIAM F. GOULDING . 1880-83	Franklin W. Hobbs . 1908-10
Richard Garsed 1881-85	EDWIN F. GREENE . 1910-12
Joseph S. Ludlam . 1883-86	Frederick A. Flather 1911-13
Walter E. Parker . 1885–89	George P. Grant, Jr. 1912-14
RICHARD B. BORDEN . 1886-88	Albert G. Duncan . 1913-14
Arnold B. Sanford . 1888-91	WILLIAM M. BUTLER . 1914-16
ROBERT McArthur . 1889-92	Grosvenor Ely 1914-16
Simeon B. Chase . 1891-93	W. Frank Shove 1916-18
Edward W. Thomas . 1892-94	Russell B. Lowe . 1916–20
Alfred M. Goodale . 1893-95	James Thomson 1918-22
William J. Kent . 1894–97	ROBERT AMORY 1920-22
Fred C. McDuffie . 1895–00	Nathan Durfee 1922-24
Henry T. Whitin . 1897-00	John Skinner 1922–24
Chas. H. Richardson . 1900-01	Russell H. Leonard . 1924-
George H. Hills . 1900-02	John A. Sweetser . 1924-
Herbert E. Walmsley 1901-03	

DIRECTORS

D D G 1005 00	D 111 D
DANIEL D. CROMBIE . 1865-68	Russell W. Eaton . 1896-97
Jones S. Davis 1865–69	George H. Hills . 1897–00 Chas, H. Richardson . 1897–00
William P. Haines . 1865–69	Chas. H. Richardson . 1897–00
Phineas Adams 1865–74	John T. Meats 1898–01 George F. Whitten . 1898–04
THOMAS J. BORDEN . 1865–78	George F. Whitten . 1898-04
Charles Nourse 1865–78	Alfred E. Adams . 1899–02 A. Tenny White . 1899–02
PHINEAS ADAMS	A. Tenny White . 1899–02
David J. Johnston . 1869–70	Charles H. Fish . 1900–01 Herbert E. Walmsley 1900–01
FREDERICK E. CLARKE . 1869-75	Herbert E. Walmsley 1900-01
A. G. Cumnock 1869–77 John Kilburn 1870–80	Wm. D. Hartshorne . 1901-03
John Kilburn 1870–80	James R. MacColl . 1901-03
WILLIAM P. HAINES . 1874-78 CYRUS I. BARKER . 1875-80	W. B. SMITH WHALEY . 1901-04
Cyrus I. Barker . 1875–80	James R. Montgomery 1902-05
Hervey Kent 1877–81	Wm. D. Pennell . 1902–05
Walter Paine, 3d . 1878-80	Philip A. Mathewson 1903-06
David J. Johnston . 1878–82	George P. Grant, Jr. 1903-12
HERVEY KENT	George A. Ayer 1904-05
RICHARD GARSED 1880-81	С. Р. Вкоокз 1904-07
WILLIAM H. JENNINGS . 1880-83	Charles T. Plunkett 1905-07
John W. Danielson . 1881-85	Roscoe S. Milliken . 1905–08
Walter E. Parker . 1881-85	William H. Loftus . 1905–10
WILLIAM E. BARROWS 1882-83	George Otis Draper . 1906-07
Chas. D. McDuffie . 1883-83	Franklin W. Hobbs . 1906-08
RICHARD B. BORDEN . 1883-86	HENRY F. MANSFIELD . 1906–10
Rufus A. Maxfield . 1883-86	ROBERT REATTY 1906-11
George W. Weeks . 1883-86	ROBERT BEATTY 1906-11 EDWIN F. GREENE . 1907-10
HENRY S HOWE 1883-87	John W. Knowles . 1907-10
HENRY S. HOWE 1883–87 HENRY F. LIPPITT . 1885–88	Frederick A. Flather 1907-11
O S Brown 1885-91	Joseph Merriam 1908–11
O. S. Brown 1885–91 Wilbur A. Stiles . 1886–88	David S. Johnston . 1908–12
ROBERT MCARTHUR . 1886–89	Frederick B. Macy . 1910–14
STEPHEN N. BOURNE . 1886-91	Albert Farwell Bemis 1910–16
S. S. SPENCER 1887–90	Russell B Lowe 1010-16
EDWARD W. THOMAS . 1888-92	Russell B. Lowe . 1910-16 R. M. Miller, Jr 1910-17 William Amory 1911-14
WILLIAM W. WHITIN . 1888–93	With A Avory 1011-14
ROBERT R. SMITH . 1889–92	W. Frank Shove . 1911–16
ALFRED M. GOODALE . 1890–93	WILLIAM N. KIMBALL . 1911–17
HEDMAN F STRAW 1901-02	Albert G. Duncan . 1912–13
HERMAN F. STRAW . 1891-93 WILLIAM J. KENT . 1891-94	WILLIAM M. BUTLER . 1912–14
Fred C. McDuffie . 1892–95	GROSVENOR ELY 1912–14
George W. Bean . 1892–95	WILLIAM A. MITCHELL 1914–17
Frank M. Messenger 1893–95	
Albert F. Knight . 1893–99	ALEXANDER MAKEPEACE 1914-18
ADMILIO H LOWE 1004 OC	John Sullivan 1914–18
ARTHUR H. LOWE . 1894–96 HENRY T. WHITIN . 1894–97	THILIP DANA
HENRY I. WHITIN . 1894-97	PHILIP DANA
Company A. Variante 1895-98	P. Y. DENORMANDIE . 1916-19
HERBERT L. PRATT . 1895–98 STEPHEN A. KNIGHT . 1895–98 JOHN ECCLES 1895–99	John E. Rousmaniere 1916–22
JOHN ECCLES 1895–99	WILLIAM B. MACCOLL 1917-18

Thomas H. Rennie . 1917–19 Charles L. Gilliland 1917–20 Albert Blum . 1918–20 Frederick L. Jenckes 1918–21 John Skinner . 1918–22 J. Arthur Atwood . 1918–24 Charles B. Chase . 1918–23 Lewis Dexter . 1918–23 Charles M. Holmes . 1918–23 Charles M. Holmes . 1918–23 Charles M. Holmes . 1918–23 John E. McLoughlin 1919–22 Morgan Butler . 1919–24 A. W. Dimick . 1919–24 A. W. Dimick . 1919–24 Nathan Durfee . 1920–22 Samuel Stewart . 1920–23 E. Kent Swift . 1920–23 Allen F. Johnson . 1921–22 Alfred E. Colby . 1922– Phillip Dana . 1922–	B. H. Bristow Draper 1922–24 John A. Perkins 1922– James Thomson 1922–25 Arthur R. Dickinson 1923–25 R. H. I. Goddard 1923–25 Russell H. Leonard 1923–24 John A. Sweetser 1923–24 Andrew S. Webb 1923– C. F. Broughton 1923– Albert G. Mason 1924– W. S. Pepperell 1924– W. Irving Bullard 1924– John L. Burton 1924– John S. Lawrence 1924– John S. Lawrence 1924– John S. Lawrence 1924– Lames Sinclair 1924– E. Kent Swift 1924– William B. MacColl 1925–25 S. Harold Greene 1925– James O.Thompson, Jr. 1925– Dexter Stevens 1925–
AUDI	TORS
Benjamin Saunders . 1865-71 John C. Palfrey . 1871-73 Henry D. Sullivan . 1873-82 J. Herbert Sawyer . 1882-00	C. E. Roberts 1900–16 Boyden & Steacie 1916–19 F. W. Lafrentz & Co. 1919–
SECRETARY AM	TD TREASURER
	С. Ј. Н. Woodbury . 1894–15
SECRETARY C. J. H. WOODBURY . 1915-16	TREASURER CHARLES H. FISH . 1915–16
SECRETARY AN	ND TREASURER
	Fish, 1916–17
SECRETARY RUFUS R. WILSON . 1917–21 HARRY C. MESERVE . 1921–25 RUSSELL T. FISHER . 1925–	TREASURER HERBERT LYMAN . 1917–18 W. IRVING BULLARD . 1918–

ALPHABETICAL LIST OF MEMBERS

HONORARY, LIFE, ACTIVE, ASSOCIATE, TECHNICAL, AND SUSTAINING

ALSO SUSTAINING REPRESENTATIVES

As of July 1, 1926

Hon. — Honorary L. — Life Ac. — Active S.R. — Sustaining Represe	Sus	— T – Sus	ciate echnic tainin			
					le c ted	
Abercrombie, James H. "Rutland," Dorking Rd., Reigate, Surrey, Eng.	•	٠	Ac.	Apr.	25,	1907
Aberfoyle Mfg. Co		•	Sus.	May	22,	1917
Acushnet Mill Corp		٠	Sus.	Nov.	21,	1918
Adam, Alexander E	Hamilton	, Ón	Ac. tario,	Apr.	30,	1909
Adams, George B		•	Ac.	Apr.	30,	1909
Adams, Henry Shaw	Chester,	s. c	Ac.	Oct.	4,	1907
Adams, Robert J. Pres. Adams Mfg. Co., 31–33 East 32d St., New Y	York Cit	y.	Ac.	Oct.	19,	1923
Aldrich Brothers Co. Charles T. Aldrich, Treas., Moosup, Conn.			Sus.	Jan.	24,	1919
Aldrich, Charles T. Treas. Aldrich Brothers Co., P. O. Box 1134, Provi	idence, F	R. I.	Ac.	Apr.	28,	1886
Algeo, Bradley C. Philadelphia Textile School, 320 So. Broad St., Ph	iiladelph	ia, Pa	Ac.	Sept.	21,	1905
Algonquin Printing Co. William H. Jennings, Treas., Fall River, Mass.			Sus.	Nov.	1,	1918
Allen, Fred Asst. Mgr. The Textile Development Co., 80 Fe	ederal S	t., Be	Ac. oston,	June	5,	1925
Allen, G. Bion Managing Director J. & P. Coats (R. I.), Inc., Pawtucket, R. I.	117 Mu	lberr	Ac. y St.,	Apr.	27,	1905
Allen, John E	oston, M	lass.	Tech.	Apr.	16,	1926
Allen, Lewis F. Treas. Dinsmore Mfg. Co., Salem, Mass.		٠.	As.	Apr.	28,	1910
Allen, Warner M. Parkhill Mfg. Co., Fitchburg, Mass			S.R.	May	11,	1917
Almy, John T. Treas. Attawaugan Co., Norwich, Conn.			Ac.	Apr.	28,	1910
American Mfg. Co			Sus.	Nov.	1,	1917

					Elected
American Printing Co				Sus.	Jan. 7, 1918
Ames, Allan W. Bankers Trust Co., 16 Wall St., New York City.			٠	As.	May 1, 1924
Ames, John Ormsbee	Ř. I.	٠		$\{$ L.	Sept. 21, 1900 Sept. 21, 1905
Amory, Browne & Co. Robert Amory, Boston Mass.,		٠		Sus.	Sept. 18, 1917
Amory, Frederick				S.R.	Aug. 11, 1917
Amory, Browne & Co., Boston, Mass.				S.R.	Sept. 18, 1917
Anderson, Clayton & Co John Hopkins, Houston, Tex.				Sus.	June 1, 1923
Anderson, Thomas T	tucket	, R. I		Ae.	Apr. 16, 1926
Anderson, Will B				As.	May 3, 1918
Anderson, William D				Ae.	Apr. 29, 1915
Andres, Eugen C., Eugen C. Andres Co., 20 Central St., Boston, M	ass.			As.	Oct. 18, 1900
Andres, Frederick H. Treas. Frederick H. Andres, Inc., 45 Milk St., B	oston,	Mass		As.	Sept. 30, 1914
Andrews, Harold B J. P. Rhodes Company, Providence, R. I.	٠			As.	Apr. 16, 1926
Androscoggin Mills				Sus.	July 23, 1917
Appleton, William C., Jr				As.	June 14, 1926
Arkwright Mills				Sus.	Sept. 10, 1918
Armitage, Joshua D	New 1	York (City	Ae.	Apr. 26, 1906
Arnold, E. H. Asst. Treas. Greylock Mills, North Adams, Mass	S.	•	٠	Ac.	May 4, 1920
Ashland Cotton Co		٠	٠	Sus.	May 12, 1917
Ashley, Charles S., Jr	New I	Bedfor	d, 1	As. Mass.	June 2, 1922
Ashworth, Henry Ashworth Brothers, Inc., P. O. Box 776, Fall Rice	ver, M	Iass.		As.	Apr. 28, 1897
Aspden, Thomas	, Quel	pec, C	an.	As.	May 5, 1922
Atkinson, E. W. Atkinson, Haserick & Co., 152 Congress St., Bos	ion, N	iass.		Ac.	Oct. 27, 1886
Attawaugan Co				Sus.	July 20, 1918
Atteaux, Frederick E	ırchas	e St.,	В	As. oston,	Apr. 26, 1917

	Elected
Atwood, J. Arthur	
Ayer, Frederick Ac. Pres. Tremont & Suffolk Mills, 141 Milk St., Boston, Mass.	May 1, 1924
Ayer, George A	Apr. 24, 1895
Ayer, Nathaniel F	Apr. 25, 1901
Babcock, Frederick L	Apr. 6, 1922
Baetjer, Howard Ac. Pres. Mt. Vernon-Woodberry Mills, 506 Continental Bldg., Baltimore, Md.	May 3, 1918
Bailey, C. E	Apr. 6, 1925
Bailey, Harry L	Oct. 2, 1913
Bailey, Joseph W. Gen. Mgr. Butler Mill, New Bedford, Mass	Apr. 23, 1903
Baldwin, James	June 14, 1926
Baldwin, Luther C	Sept. 17, 1910
Ballard, Joseph W	Jan. 21, 1918
Ballard, Walter C	Oct. 20, 1917
Ballou, Roland H. Ac. Vice Pres. Connecticut Mills Co., 736 Hospital Trust Bldg., Providence, R. I.	Sept. 16, 1916
Balmer, John T	June 5, 1925
Bancroft, John, Jr. Ac. Sales Mgr. Joseph Bancroft Sons Co., 320 Broadway, New York City.	Aug. 3, 1921
Bannon, John F Ac. Pres. Mansfield Bleachery, Barrowsville, Mass.	May 3, 1918
Barber-Colman Co Sus. Howard D. Colman, Pres., Rockford, Ill.	Sept. 10, 1917
Barnard Mfg. Co	Nov. 1, 1918
Barnefield, Harold C S.R. Waypoyset Mfg. Co., Central Falls, R. I.	Jan. 28, 1919
Barnes, Joel M	Sept. 29, 1911
Barnum, George S	Apr. 24, 1895
Barnwell, Elliot H	May 3, 1918
Barr, Walwin	Apr. 30, 1914

	Elected
Barrell, William L	Apr. 28, 1910
Barrett, D. Emerson	Nov. 23, 1925
Barrows, Allan	July 15, 1922
Bartlett, Edwin N	Apr. 29, 1891
Bartlett, Robert A S.R. Treas. Acushnet Mill Corp., New Bedford, Mass.	Nov. 21, 1918
Bassett, C. C. Jr. As. The Viscose Company, 171 Madison Ave., New York City.	Oct. 5, 1923
Batchelder, Nelson A	Sept. 30, 1914
Bates, Daniel Moore	Apr. 27, 1898
Bates Mfg. Co	Sept. 18, 1917
Bauldry, Lyman C	Apr. 5, 1921
Baylies, Lincoln	June 14, 1926
Baylies, Walter C	Oct. 20, 1917
Beacon Mfg. Co	Nov. 7, 1917
Beal, W. DeFord	May 1, 1924
Bean, Frank A. Ac. Ac. Asst. Agt. American Mfg. Co., Victory Mills, Victory Mills, N. Y.	Apr. 6, 1923
Beaver Mills	Apr. 9, 1918
Beede, Herbert G	May 4, 1920
Bell, Colin C	Apr. 29, 1896
Belland, Harry D. Ae. Supt. Dominion Textile Co., Ltd., Dominion Cottons Branch, Kings Pk., Verdun, Quebec, Can.	Mar. 7, 1924
Bemis, Albert Farwell . Chairman, Bemis Bro. Bag Co., 40 Central St., Boston, Mass.	Apr. 23, 1903 Apr. 13, 1911
Bemis Bro. Bag Co	June 6, 1917
Benjamin, Edward B	May 20, 1919
Bennett, E. Howard As. American Wool & Cotton Reporter, 530 Atlantic Ave., Boston, Mass.	Apr. 30, 1914
Berkshire Cotton Mfg. Co Sus. Charles T. Plunkett, Pres., Adams, Mass.	May 12, 1917

Berry, Henry Newhall Richmond Lace Wiss, 85 Devonshire St., Boston, Mass. Rost, Edward H. Best & Co., P. O. Box 2207, Boston, Mass. Billington, L. A. As. Apr. 23, 1903 Billington, L. A. As. Agrat. For Dummer Mills, Brattleboro, Vermont. Bishop, Frederick H. Chiversal Winding Co., 95 South St., Boston, Mass. Ass. Apr. 26, 1906 Bishop, Robert Ass. Apr. 26, 1906 Bishop, Robert Bishop Mig. Co., 157 W. Sixth St., So. Boston, Mass. Blake, Charles R. Ac. Apr. 26, 1906 Blake, Edmund E. Ass. Ass. Ass. Ass. Apr. 26, 1906 Blake, Edmund E. Ass. Ass. Ass. Ass. Ass. Ass. Blake, Edmund E. Ass.				El	ected	
Edward H. Best & Co., P. O. Box 2207, Boston, Mass. Billington, L. A. Agr. 6, 1925 Agent, Fort Dummer Mills, Brattleboro, Vermont. Bishop, Frederick H. Chiversal Winding Co., 95 South St., Boston, Mass. Bishop, Robert Agr. 26, 1900 Treas, Robert Bishop Mfg. Co., 157 W. Sixth St., So. Boston, Mass. Blake, Charles R. Agr. 26, 1905 19 Harrison St., Taunton, Mass. Blake, Edmund E. As. Oct. 2, 1902 Saco-Lowell Shops, Biddeford, Mc. Blake, Francis P. As. Oct. 2, 1902 Bay State Belting Co., 349 Congress St., Boston, Mass. Blanchard, Fessenden S. As. Oct. 5, 1920 Asst. to Treas, Pacific Mills, 24 Federal St., Boston, Mass. Blum, Albert Supt. Osborn Mills, Fall River, Mass. Boardman, Richard Supt. Osborn Mills, Fall River, Mass. Bogert, Theodore P. As. Apr. 13, 1911 Sec. Mrs. Mut. Fire Ins., Co., Providence, R. I. Bolinger, John Vice Pres. National Shawmut Bank, Boston, Mass. Booth, Joseph W. Ac. Apr. 25, 1907 Treas, The George E. Kunhardt Corp., Lawrence, Mass. Bott Mills Supt. Supt. Mass. Borden, Bertram H. Ac. Agr. 25, 1907 Treas, Richard Borden Mfg. Co., Fall River, Mass. Borden, Charles N. The George F. Kunhardt Corp., Lawrence, Mass. Borden, Charles N. The George Mills, Pres. Agr. Ac. Agr. 25, 1907 Treas, Richard Borden Mfg. Co., Fall River, Mass. Borden, Bertram H. Ac. Ac. Apr. 25, 1907 Treas, Richard Borden Mfg. Co., Fall River, Mass. Borden, Charles N. The George Res., Fall River, Mass. Borden, Richard Mfg. Co. Sup. July 17, 1917 Treas, Richard Bischery, Fall River, Mass. Borden, Spencer, Jr. Ac. Apr. 27, 1916 Treas, Durfee Mills, Fall River, Mass. Borden, Spencer, Jr. Ac. Apr. 27, 1916 Treas, Durfee Mills, Fall River, Mass. Borden, Spencer, Jr. Ac. Apr. 27, 1916 Treas, Durfee Mills, Fall River, Mass. Borden, Miller, Ass. May 1, 1920 James H. Whitchead, Treas, Waltham, Mass. Bourne Mills George Delano, Treas, Fall River, Mass. Bourne Mills George Delano, Treas, Fall River, Mass.	Berry, Henry Newhall Richmond Lace Wks., 85 Devonshire St., Boston, Mass.		Ac.			
Agent, Fort Dummer Mills, Brattleboro, Vermont. As. Apr. 26, 1900	Best, Edward H Edward H. Best & Co., P. O. Box 2207, Boston, Mass.	٠	As.	Apr.	23,	1903
Bishop, Frederick H.	Billington, L. A		Ac.	Apr.	6,	1925
Treas. Robert Bishop Mfg. Co., 157 W. Sixth St., So. Boston, Mass. Blake, Charles R.	Bishop, Frederick H.		As.	Apr.	26,	1900
Blake, Charles R. 1911 1905 1911 1905 1911 1905 1911 1905 1911 1905 1911 1905 1911 1905 1911 1905 1911 1905 1911 1912 1915 1	Bishop, Robert Treas, Robert Bishop Mfg. Co., 157 W. Sixth St., So. Bost	on,	Ae. Mass.	Apr.	26,	1906
Blake, Edmund E. As. Oct. 2, 1902	Blake, Charles R.			Sept.	21,	1905
Blake, Francis P	Blake, Edmund E		As.	Oct.	2,	1902
Blanchard, Fessenden S.	Blake, Francis P.		As.	May	3,	1921
Blum, Albert	Blanchard, Fessenden S.		Ae.	Oet.	5,	1920
Boardman, Richard Supt. Osborn Mills, Fall River, Mass. Bogert, Theodore P. As. Apr. 13, 1911 Sec. Mirs. Mut. Fire Ins., Co., Providence, R. I. Bolinger, John As. Dec. 12, 1918 Vice Pres. National Shawmut Bank, Boston, Mass. Booth, Joseph W. Ac. Apr. 25, 1907 Treas. The George E. Kunhardt Corp., Lawrence, Mass. Boott Mills Sus. July 17, 1917 Frederick A. Flather, Treas., Lowell, Mass. Borden, Bertram H. Ac. Ac. Apr. 25, 1907 Treas. American Printing Co., P. O. Box 1194, City Hall Sta., New York City. Borden, Charles N. Ac. Apr. 25, 1907 Treas. Richard Borden Mfg. Co., Fall River, Mass. Borden, Jefferson, Jr. Ac. Apr. 25, 1907 Treas. Richard Mfg. Co. Fall River, Mass. Borden, Richard Mfg. Co. Sus. July 17, 1917 Charles N. Borden, Treas., Fall River, Mass. Borden, Spencer, Jr. Ac. Apr. 27, 1916 Pres. & Treas. Fall River Bleachery, P. O. Box 1, Fall River, Mass. Borden, Sydney H. Ac. Sept. 16, 1916 Treas. Durfee Mills, Fall River, Mass. Boston Mfg. Co. Sus. May 31, 1917 James H. Whitehead, Treas., Waltham, Mass. Bourne Mills Sus. May 1, 1920 George Delano, Treas., Fall River, Mass. Bowen Amos Miller As. Apr. 6, 1923 Apr. 6, 1923 Bowen Amos Miller As. Apr. 6, 1923 Apr. 6, 1923 Box Dec. Amos Miller As. Apr. 6, 1923 Box Amos Miller As. Apr. 6, 1923 Box Box Amos Miller As. Apr. 6, 1923	Blum, Albert		S.R.	Feb.	12,	1918
Bogert, Theodore P.	Boardman, Richard		Ac.	Sept.	11,	1912
Bolinger, John Vice Pres. National Shawmut Bank, Boston, Mass. Booth, Joseph W. Treas. The George E. Kunhardt Corp., Lawrence, Mass. Boott Mills Frederick A. Flather, Treas., Lowell, Mass. Borden, Bertram H. Pres. American Printing Co., P. O. Box 1194, City Hall Sta., New York City. Borden, Charles N. Treas. Richard Borden Mfg. Co., Fall River, Mass. Borden, Jefferson, Jr. Fall River Bleachery, Fall River, Mass. Borden, Richard Mfg. Co. Charles N. Fall River, Mass. Borden, Richard Mfg. Co. Press. & Treas. Fall River Bleachery, P. O. Box 1, Fall River, Mass. Borden, Spencer, Jr. Press. & Treas. Fall River, Mass. Borden, Sydney H. Treas. Durfee Mills, Fall River, Mass. Boston Mfg. Co. James H. Whitehead, Treas., Waltham, Mass. Bourne Mills George Delano, Treas., Fall River, Mass. Bowen Amos Miller Ae. Apr. 27, 1923	Bogert, Theodore P.		As.	Apr.	13,	1911
Booth, Joseph W. Ac. Apr. 25, 1907 Treas. The George E. Kunhardt Corp., Lawrence, Mass. Boott Mills Sunday H. Ac. Ac. May 3, 1918 Pres. American Printing Co., P. O. Box 1194, City Hall Sta., New York City. Borden, Charles N. Ac. Ac. Apr. 25, 1907 Treas. Richard Borden Mfg. Co., Fall River, Mass. Borden, Jefferson, Jr. Ac. May 3, 1918 Fall River Bleachery, Fall River, Mass. Borden, Richard Mfg. Co. Sus. July 17, 1917 Charles N. Borden, Treas., Fall River, Mass. Borden, Spencer, Jr. Ac. Ac. Apr. 27, 1916 Pres. & Treas. Fall River Bleachery, P. O. Box 1, Fall River, Mass. Borden, Sydney H. Ac. Ac. Sept. 16, 1916 Treas. Durfee Mills, Fall River, Mass. Boston Mfg. Co. Sus. May 31, 1917 James H. Whitehead, Treas., Waltham, Mass. Bourne Mills Sus. Sus. May 1, 1920 George Delano, Treas., Fall River, Mass.	Bolinger, John		As.	Dee.	12,	1918
Boott Mills	Booth, Joseph W.		Ae.	Apr.	25,	1907
Borden, Bertram H. Ae. May 3, 1918 Pres. American Printing Co., P. O. Box 1194, City Hall Sta., New York City. Borden, Charles N. Ae. Apr. 25, 1907 Treas. Richard Borden Mfg. Co., Fall River, Mass. Borden, Jefferson, Jr. Ae. May 3, 1918 Fall River Bleachery, Fall River, Mass. Borden, Richard Mfg. Co. Sus. July 17, 1917 Charles N. Borden, Treas., Fall River, Mass. Borden, Spencer, Jr. Ae. Apr. 27, 1916 Pres. & Treas. Fall River Bleachery, P. O. Box 1, Fall River, Mass. Borden, Sydney H. Ae. Sept. 16, 1916 Treas. Durfee Mills, Fall River, Mass. Boston Mfg. Co. Sus. May 31, 1917 James H. Whitehead, Treas., Waltham, Mass. Bourne Mills Sus. May 1, 1920 George Delano, Treas., Fall River, Mass.	Boott Mills		Sus.	July	17,	1917
Borden, Charles N. Ac. Apr. 25, 1907 Treas. Richard Borden Mfg. Co., Fall River, Mass. Borden, Jefferson, Jr. Ac. May 3, 1918 Fall River Bleachery, Fall River, Mass. Borden, Richard Mfg. Co. Sus. July 17, 1917 Charles N. Borden, Treas., Fall River, Mass. Borden, Spencer, Jr. Ac. Apr. 27, 1916 Pres. & Treas. Fall River Bleachery, P. O. Box 1, Fall River, Mass. Borden, Sydney H. Ac. Sept. 16, 1916 Treas. Durfee Mills, Fall River, Mass. Boston Mfg. Co. Sus. May 31, 1917 James H. Whitehead, Treas., Waltham, Mass. Bourne Mills Sus. May 1, 1920 George Delano, Treas., Fall River, Mass.	Borden, Bertram H. Pres. American Printing Co., P. O. Box 1194, City Hall	Sta.	Ae. New	May	3,	1918
Borden, Jefferson, Jr	Borden, Charles N.		Ae.	Apr.	25,	1907
Borden, Richard Mfg. Co	Borden, Jefferson, Jr.		Ac.	May	3,	1918
Borden, Spencer, Jr. Ae. Apr. 27, 1916 Pres. & Treas. Fall River Bleachery, P. O. Box 1, Fall River, Mass. Borden, Sydney H. Ae. Ae. Sept. 16, 1916 Treas. Durfee Mills, Fall River, Mass. Boston Mfg. Co. Sus. May 31, 1917 James H. Whitehead, Treas., Waltham, Mass. Bourne Mills Sus. Sus. May 1, 1920 George Delano, Treas., Fall River, Mass. Bowen Amos Miller As. Apr. 6, 1923	Rorden, Richard Mfg. Co.		Sus.	July	17,	1917
Borden, Sydney H	Rorden Spencer Jr	r. N	Ae.	Apr.	27,	1916
Boston Mfg. Co. Sus. May 31, 1917 James H. Whitehead, Treas., Waltham, Mass. Bourne Mills George Delano, Treas., Fall River, Mass. Rowen Ames Miller As. Apr. 6, 1923	Borden, Sydney H.			Sept.	16,	1916
Bourne Mills	Boston Mfg. Co.		Sus.	May	31,	1917
Rowen Amos Miller As. Apr. 6, 1923	Bourne Mills		Sus.	May	1,	1920
Treas. C. S. Milg Traveler Co., 155 Abolit Sc., 110 vidence, 16. 1.	Rowen Amos Miller	Ŕ		Apr.	6,	1923
Bowen, Elmer L	Bowen, Elmer L.	,		Oet.	29,	1918

	Elected
Bowler, Laurence R	
Bowne, Garrett D., Jr	Apr. 29, 1911
Boyd, George A	Mar. 3, 1920
Boyd, John Schofield	Sept. 23, 1909
Boyd, William V	Apr. 26, 1906
Boys, Robert W	June 14, 1926
Bradbury, James W	Apr. 16, 1926
Bradbury, Thomas	May 3, 1918
Bradley, Walter H. Ac. Asst. Treas. Hill Mfg. Company, 89 State St., Boston, Mass.	Apr. 28, 1910
Brady, Chas. E	Nov. 21, 1918
Brady, Frank A	Oct. 20, 1917
Bragdon, Lord & Nagle Co., Inc Sus. Henry G. Lord, Pres., Boston, Mass.	Mar. 1, 1918
Brayton, Frank L	Nov. 13, 1924
Brayton, Israel S.R. Treas. Lincoln Mfg. Co., Fall River, Mass.	July 30, 1917
Brierley, Joseph H	Sept. 21, 1905
Briggs, George T	Apr. 24, 1902
Brightman, Donald J	June 1, 1923
Brighton Mills	July 25, 1917
Broadbent, James T. Ac. V. P. & Gen. Mgr. Standard Textile Products Co., 320 Broadway, New York City.	Apr. 28, 1904
Bromley, Ernest	Apr. 28, 1910
Bromley, Joseph H	Sept. 21, 1905
Broughton, C. F	Oct. 20, 1917
Brown, Charles N	Oct. 29, 1918
Brown, Frederick H	Sept. 21, 1925

	Elected
Brown, George G. As. Treas. The David Brown Co., Foster & Market Sts., Lawrence, Mass.	Dec. 27, 1918
Brown, Henry R. Supt. Hope Co., Phenix Mills, P. O. Box 56, Phenix, R. I.	Apr. 28, 1897
Brown, Isaac A	Sept. 29, 1898
Brown, M. R. Treas. Davol Mills, Fall River, Mass. S.R.	Aug. 12, 1918
Brown, Stuart F. Ast. Whitinsville Spinning Ring Co., Whitinsville, Mass.	Mar. 2, 1922
Bryant, Fred C. As. Curtis & Marble Machine Co., 151 Fifth Ave., New York City.	May 1, 1924
Buckley, Charles E. Ac. Supt. Gosnold Mills Co., 24 Jenny Lind St., New Bedford, Mass.	Apr. 26, 1917
Buckley, William H. Ac. Mfg. Agt. The Baltic Mills Co., Baltic, Conn.	Apr. 30, 1909
Bucklin, Harris H. S.R. Asst. Treas. Interlaken Mills, Phenix, R. I.	Oct. 29, 1918
Budlong, Frederick R. Supt. Coventry Co., Anthony, R. I.	Apr. 24, 1923
Bullard, W. Irving Ac. Vice Pres. The Merchants National Bank, 28 State St., Boston, Mass.	Sept. 11, 1912
Burgess, Robert	Apr. 27, 1892
Burke, James A Ac. Agt. Lyman Mills, 74 Front St., Holyoke, Mass Ac.	Oct. 29, 1918
Burnham, Alfred H Ac. P. O. Box 202, Station F, Baltimore, Md.	Apr. 26, 1900
Burnham, Hervey Ac. P. O. Box 503, Suncook, N. H.	Apr. 27, 1899
Burns, Alfred Asst. Supt. West Boylston Mfg. Co., Easthampton, Mass.	Oct. 29, 1918
Burton, John L. Ac. Agt. Nashawena Mills, New Bedford, Mass.	Apr. 23, 1903
Burton, Harry H. Ac. Supt. Mill B., Nashawena Mills, New Bedford, Mass.	June 14, 1926
Butler, Arthur Cecil	Apr. 28, 1904
Butler Mill Sus. Morgan Butler, Treas., New Bedford, Mass.	Oct. 6, 1921
Butler, Morgan	Apr. 30, 1914
Butler, Obadiah	Apr. 13, 1906
Connecticut Mills Co., Danielson, Conn. Butler, William M	Apr. 28, 1910
Pres. Butler Mill, 77 Franklin St., Boston, Mass. Butterworth, Harry W	Oct. 28, 1897
Pres. II. W. Butterworth & Sons Co., York & Cedar Sts., Philadelphia, Pa.	,

					Elec	eted	
Butterworth, H. W., & Sons Co		•		Sus.	Sept.	12,	1917
Butterworth, Samuel T				Ac.	Sept.	21,	1905
Buxton, G. Edward, Jr	Trust	Bldg	;., P	Ac. Provi-	Apr.	24,	1923
Cadwell, William H	. II.			Ac.	Apr.	26,	1900
California Cotton Mills Co				Sus.	Feb.	8,	1921
Campbell, N. S	Bldg.	Pro	vide	Ac. ence,	Apr.	16,	1926
Carpenter, Chester W		•		Ac.	May	1,	1924
Carpenter, Frank L	•			Ac.	May	3,	1918
Carpenter, Lewis M		٠		Ac.	Apr.	7,	1919
Cartledge, Francis J		•		Ac.	Nov.	10,	1922
Catterall, John	ford, l	Mass.		Ac.	Apr.	16,	1926
Chace, Arnold B		•		Ac.	Apr.	26,	1906
Chace, Benjamin C		•		Ac.	Sept.	21,	1905
Chace Mills	•	•	٠	Sus.	Mar.	18,	1918
Chace, Richard B		•	٠	S.R.	Dec.	3,	1918
Chapman, Laurance D	ass.			S.R.	Mar.	7,	1924
Chapman, Robert	•		,	Ac.	Apr.	13,	1911
Charlton Mills		•		Sus.	Jan.	14,	1919
Chase, Charles A. Asst. Mgr. M. P. Dept., General Electric Co., 8 Mass.	4 Stat	ė St.,	Be	As. oston,	June	2,	1922
Chase, Charles B. Gen. Mgr. Stevens Mfg. Co., P. O. Box 45, Fall	River	Mas	s.	Ac.	Apr.	17,	1908
Chase, Fred L. F. A. Chase & Co., 253 West Exchange St., Prov				As.	Mar,	2,	1923
Chase, Simeon B. Treas. King Philip Mills, Fall River, Mass.				Ac.	Apr.	21,	1875
Chicopee Mfg. Corp	Mass.	٠		Sus.	Sept.	12,	1917

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Chidsey, John T. Pres. & Treas. The Root Co., Church St., Bristol, Conn.		As.	June		1923
Church, B. LeBaron Sales Mgr. New Bedford Cotton Waste Co., 43 Church & Bedford, Mass.	St.,	Ac. New	Nov.	13,	1924
City Mfg. Corp. John B. Strongman, Treas., New Bedford, Mass.		Sus.	July	17,	1917
Clark, Avery B		Ac.	Apr.	27,	1905
Clark, George P Pres. Columbia Narrow Fabric Co., Shannock, R. I.		Ac.	Apr.	16,	1926
Clayton, William L. Anderson, Clayton & Co., Houston, Tex.		$\{$ L.	June June		$1923 \\ 1923$
Clement, Alfred Supt. Dominion Textile Co., Ltd., 1788 Notre Dame St. Heral, Quebec, Can.	E.,	Ac. Mon-	Mar.	7,	1924
Clexton, Thomas J		As.	Sept.	13,	1906
Coates, Wallace B. Agt. Farwell Bleachery, North Andover, Mass.	٠	Ac.	May	3,	1918
Cobb, F. S. Pres. Seamans & Cobb Thread Co., 140 Essex St., Boston, N	1as	Ac.	June	5,	1925
Cobb, W. C. Supt. Ware Shoals Mfg. Co., Ware Shoals, S. C.		Ac.	Apr.	26,	1906
Coburn, F. G. Mgr. Sanderson & Porter, New York City.		S.R.	Dec.	7,	1923
Coburn, James E. Agt. Androscoggin Mills, Lewiston, Mc.		Ac.	Oct.	4,	1907
Coffin, Langdon . Purchasing Agt. Samson Cordage Wks., 144 Bellevue Ave., Mass.	Ne	Ac. wton,	Sept.	29,	1911
Coffin, Melvin H. National Ring Traveler Co., Providence, R. 1.		As.	Oct.	2,	1902
Coggeshall, John W. Tillotson Humidifier Co., 78 Fountain St., Providence, R. I.		Ac.	Apr.	30,	1909
Colby, Alfred E Asst. Treas. Pacific Mills, 24 Federal St., Boston, Mass.		Ac.	Apr.	6,	1922
Coleman, Philip F. Sec. John Farnum Co., Philadelphia, Pa.		S.R.	Oct.	5,	1923
Collins, Charles E. Agent, Methuen Co., Methuen, Mass.		Ac.	Apr.	17,	1890
Colman, Howard D		As.	Apr.	27,	1905
Colquhoun, M. W. Sec. Pepperell Mfg. Co., 141 Milk St., Boston, Mass.		Ac.	Aug.	3,	1921
Comins, Frank B., Gen. Mgr. American Moistening Co., 251 Causeway St., Mass.	во	Ac.	Oct.	28,	1891
Cook, Albion C		Ac.	Nov.	10,	1922

	Elect	ed
Cook, Edward H		28, 1910
Cook, G. Arthur	. Apr. 2	25, 1907
Cook, Kenneth B. As Mgr. Textile Section, U. S. Rubber Cc., 451 So. Jefferson St. Orange N. J.	. July 1	15, 1922
Cooley, Fred A	. Apr. 3	30, 1909
Coolidge, Amory	. Oet. 1	14, 1925
Coon, J. L	. May	3, 1918
Cooper, James A. As Whitin Machine Works, Whitinsville, Mass.	. Sept. 1	13, 1906
Corn Products Refining Co. Sus Charles P. Slocum, New York City.	. Mar.	2, 1918
Cornell Mills Robert W. Zuill, Treas., Fall River, Mass.	. July 1	20, 1918
Corr, Peter H. Ac Treas. Greenwich Bleachery, Taunton, Mass.	. Apr. 1	24, 1895
Cottrell, B. S	. May	3, 1918
Couper, Archibald W	Oct.	29, 1918
Covel, Thomas D	. Apr. 1	26, 1906
Cowell, Richard	. Apr. 2	24, 1902
Coxen, Harold M. S.R. Hoosac Cotton Mills, North Adams, Mass.	. Feb. :	21, 1918
Cramer, Stuart W	. Apr. 2	26, 1906
Cranska, Lucius B	. Sept. 1	21, 1905
Crawford, Dana R. As Sales Agt. U. S. Bobbin & Shuttle Co., 57 Eddy St., Providence, R. I.		14, 1925
Crompton & Knowles Loom Works Sus Homer Gage, Pres., Worcester, Mass.	. July :	20, 1918
Cronkhite, Leonard W	Apr. 5	30, 1909
Crown Mfg. Co	. Oct.	19, 1918
Cummings, Stanley R	. Mar.	7, 1924
Cumnock, John	. Apr.	30, 1914
Cunningham, George C		6, 1922

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Currier, Andrew J		Ac.	Apr.	25,	1888
Curtis & Marble Machine Co		Sus.	Apr.	8,	1919
Cushing, Joseph L		As.	Apr.	26,	1900
Cutter, John Amory, Browne & Co., 48 Franklin St., Boston, Mass.		Ac.	June	5,	1925
Dana, Luther Supt. Dana Warp Mills, 55 Strondwater St., Westbrook, Me		Ac.	Apr.	30,	1914
Dana, Philip Pres. Dana Warp Mills, 347 Brown St., Westbrook, Me.		Ac.	Sept.	29,	1898
Dana Warp Mills Philip Dana, Pres., Westbrook, Me.		Sus.	May	12,	1917
Daniels, F. G. Gen. Mgr. Dominion Textile Co., Ltd., 10 Victoria Sq., M. Quebec, Can.	lon	Ac. treal,	Apr.	17,	1908
Danker, Daniel J		$\{L.$	Apr. Apr.	28, 25,	$\frac{1904}{1907}$
Davis, Edward H	Вс	Ac.	Apr.	6,	1923
Davis Mills		Sus.	July	20,	1917
Davis, Poncet Poncet Davis Co., 226 Ohio Bldg., Akron, Ohio.		As.	June	1,	1923
Davol Mills		Sus.	Aug.	12,	1918
Dawson, Arthur O. Vice Pres. Canadian Cottons, Ltd., 28 Victoria Sq., Montre bec, Can.	eal,	Ac. Que-	Oct.	4,	1907
Day, Morgan G. Asst. Agt. Indian Orchard Co., Indian Orchard, Mass.		Ac.	May	3,	1921
Day & Zimmerman, Inc. Charles Penrose, Asst. Gen. Mgr., Philadelphia, Pa.		Sus.	Oct.	15,	1920
Dean, Milton O		Ac.	Dec.	1,	1921
Deering, Milliken & Co., Inc		Sus.	Nov.	26,	1919
De Forest, George Pres. Utica Steam & Mohawk Valley Cotton Mills, Utica, N	i. 7	Ac.	Oct.	28,	1897
Delano, Arthur D. Treas. Manufacturers' Supply Co., 382 Acushnet Ave., New Mass.	$\dot{\mathrm{Be}}$	As. dford,	May	5,	1919
Delano, George		S.R.	May	1,	1920
DeNormandie, P. Y		Ac.	Apr.	29,	1896
Dexter, Henry C. Pres. Warwick Lace Works, Central Falls, R. I.	•	Ac.	Apr.	25,	1901

	Elected
Dick, Evans, Jr	
Dick, Geary & Lancaster Sus. Evans Dick, Jr., Boston, Mass.	June 14, 1926
Dickinson, Arthur R	May 4, 1920
Dillon, Frederick N	Sept. 22, 1904
Dimick, A. W	Sept. 10, 1918
Dineen, John J	. Apr. 30, 1914
Dixon, Ezra	Sept. 21, 1905
Dodd, H. C	Oet. 5, 1922
Dodge, Linsley V	. Apr. 16, 1926
D'Olier, Franklin & Co., Inc Sus Franklin D'Olier, Pres. & Treas., Philadelphia, Pa.	. Dec. 7, 1923
D'Olier, Franklin Pres. & Treas. Franklin D'Olier & Co., Inc., Philadelphia, Pa.	. Dec. 7, 1923
Dolphin, Joseph	. May 3, 1918
Donelan, Thomas E. Ae Gen. Mgr. Greenwich Bleachery, So. Main St., E. Greenwich, R. I.	. Feb. 2, 1922
Dooley, John S	. Feb. 14, 1919
Doughty, Howard N	. Nov. 10, 1922
Douty, Daniel E	. Oct. 2, 1913
Dow, Robert	. Apr. 25, 1901
Downer, Arthur T. As Treas. & Gen. Mgr. The Winchester Laundries, Inc., Converse Pl. Winchester, Mass.	. June 1, 1923
Draper, Arthur J	,
Draper, B. H. Bristow Treas. Draper Corporation, Hopedale, Mass.	Apr. 24, 1913 May 7, 1913
Draper Corp. B. H. Bristow Draper, Treas., Hopedale, Mass.	. Aug. 10, 1917
Draper, George O	. July 1, 1919
Dresser, Henry C. Ac. Adams, Mass. Ac.	e. Apr. 27, 1905
Duckworth, Harry S	e. Apr. 17, 1908

		Elected
Duff, John	As.	Apr. 28, 1910
Dumaine, Frederic C	Ac.	Apr. 25, 1901
Duncan, Albert Greene	Ac.	Apr. 28, 1910
Duncan, David Asst. to Agents, Lonsdale Co., 50 South Main St., Providence,	Ac. R. I.	Jan. 11, 1926
Dunlap, F. Lincoln Supt. Wampanoag Mills, 69 Alden St., Fall River, Mass.	Ac.	Feb. 2, 1923
du Pont de Nemours, E. I. & Co., Inc. E. A. MacKinnon, Boston, Mass.	Sus.	Dec. 29, 1917
Durfee, Nathan Asst. Treas. American Printing Co., Fall River, Mass.	Ac.	Apr. 27, 1916
Dutcher, Frank J. Pres. Draper Corp., Hopedale, Mass.	Ac.	Apr. 24, 1902
Dwight Mfg. Co	Sus.	Dec. 5, 1918
Eames, Charles H	Ac.	Apr. 25, 1907
Earle, Frederic E. Pres. & Treas. F. E. Earle Co., 30 North St., Fairhaven, Mass.	As.	Apr. 6, 1923
Earle, G. Kenneth Pres. G. Kenneth Earle Co., 4 Market Sq., Providence, R. I.	As.	July 10, 1925
Easton, Frederic W. Pres. Wapoyset Mfg. Co., 180 Weeden St., Pawtucket, R. I.	Ac.	Apr. 25, 1910
Eastwood, Benjamin	Ac.	Apr. 13, 1911
Eddy, Jesse P	Ac.	Sept. 21, 1905
Eddy, John D. Supt. Weetamoe Mills, 190 Winter St., Fall River, Mass.	Ac.	Apr. 27, 1916
Ely, Frederick W. Agt. Columbian Mfg. Co., Greenville, N. H.	Ac.	Apr. 25, 1888
Ely, Grosvenor	Ac.	Sept. 30, 1908
Emery, Arthur L	Ac.	Apr. 5, 1921
Erhard, George P	S.R.	Apr. 1, 1918
Erwin, William A. Treas. Erwin Cotton Mills, West Durham, N. C.	Ac.	Sept. 29, 1911
Esmond Mills, The	Sus.	Nov. 14, 1918
Estes, Elmer B. Vice Pres. Estes Mills, Fall River, Mass.	Ac.	May 3, 1918
Estes, George H	Ac.	May 5, 1922
Everett, Henry C., Jr	Ac.	Sept. 15, 1916

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Vice Pres. & Gen. Mgr. Wonalancet Co., Nashua, N. H.	•	S.R.	Mar. 15, 19	918
Everett Mills		Sus.	Aug. 1, 19	923
Fabyan, Francis W		Ac.	Sept. 29, 19	911
Fales, J. Richmond Vice Pres. Fales & Jenks Machine Co., Pawtucket, R. I.		As.	Apr. 24, 19)23
Farlow, John S	٠	S.R.	Jan. 30, 19	925
Farnsworth, John P	Provid	Ac. lence,	Mar. 4, 19	920
Farnum, John, Co	٠	Sus.	Oct. 5, 19	923
Farrell, J. E. Supt. Passaie Division, Essex Cotton Mills, Passaic, N. J		Ac.	June 6, 19	924
Faunce, Vernon C. Agt. Warren Cotton Mills, W. Warren, Mass.	٠	Ac.	Apr. 17, 19	908
Ferguson, Alfred L. Vice Pres. Consolidated Textile Corp., 88 Worth St., New	York	Ac. City.	Oct. 4, 19	907
Ferguson, J. C. Gen. Mgr. Eclipse Textile Co., Inc., Elmira, N. Y.	•	As.	May 3, 19	921
Ferguson, James T. Agt. Warwick Mills, Centreville, R. I.		Ac.	Oct. 5, 18	399
Ferguson, John W	٠	As.	Apr. 24, 18	895
Ferrier, William	٠	Ac.	Apr. 6, 19	
Field, Frank S		$\{L.$	Oct. 25, 18 Apr. 27, 19	
Filley, Frank H	klyn, N	Ac. V. Y.	Sept. 30, 19	
Fish, Charles H		$\{L.$	Apr. 27, 18 Apr. 28, 19	
Fisher, Andrew	٠	Ac.	Apr. 28, 19	910
Fisher, Stuart D. Supt. Westerly Branch, Lorraine Mfg. Co., Westerly, R.	I. ·	Ac.	July 10, 19	925
Fitchburg Yarn Co		Sus.	Nov. 1, 19	918
Fitzpatrick, A. L. Vice Pres. Deering, Milliken & Co., Inc., New York City		S.R.	Nov. 26, 19	
Flather, Frederick A. Treas. Boott Mills, 79 Milk St., Boston, Mass.		$\{L.$	Apr. 29, 18 Apr. 17, 19	
Flather, Frederick		$\{L.$	May 1, 19 May 1, 19	924
Flather, John Rogers		{ L.	May 1, 19 May 1, 19	

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Flynn, George D., Jr				Ac.	June		1926
Forestdale Mfg. Co				Sus.	Jan.	23,	1919
Forsaith, Charles Henry Supt. Jackson Mill of Nashua Mfg. Co., Nashua,	N. I	L.		Ac.	Oct.	14,	1925
Fort Dummer Mills John McMahon, Treas., Brattleboro, Vt.				Sus.	Nov.	15,	1918
Foss, Eugene N. Pres. B. F. Sturtevant Co., Hyde Park, Mass.				Ac.	Apr.	25,	1907
Foss, Noble		٠		Ac.	Apr.	16,	1926
Fowler, C. S. Pres. The Westerly Textile Co., Westerly, R. I.		•		Ac.	June	29,	1920
Fowler, E. T. Treas. & Mgr. Foster Machine Co., Westfield, M	ass.	٠		As.	Apr.	26,	1906
Fowler, Wells R	v, R.	I.		S.R.	Apr.	16,	1926
Fraker, George W. Vice Pres. National City Bank, New York City.				As.	Mar.	1,	1919
France, Edward W. Director, Philadelphia Textile School, Broad ar delphia, Pa.	id Pi	ne Sts	., I	Ac. Phila-	Sept.	22,	1896
France, Thomas W				As.	Dec.	7,	1923
Francis T. A., & Co. T. A. Francis, Providence, R. I.				Sus.	Aug.	1,	1919
Freeman, Arthur C. Vice Pres. H. W. Butterworth & Sons Co., 1212 Providence, R. I.	Turl	ks He	ad 1	Ac. Bldg.,	Apr.	27,	1899
Frisbie, Calvin H. Pres. Attawaugan Co., Killingly, Conn.				S.R.	July	20,	1918
Fritz, Frank R. Nashua Mfg. Co., 48 Franklin St., Boston, Mass	S.		٠	Ac.	Oct.	16,	1919
Gage, Homer Pres. Crompton & Knowles Loom Works, Worce	ester,	Mass.		S.R.	July	20,	1918
Gagnebin, Charles L				As.	Apr.	30,	1914
Gallant, Walter B				Ac.	Feb.	2,	1922
Gallup, W. Arthur Treas. Arnold Print Wks., North Adams, Mass.				Ac.	Apr.		1909
Gama, Salvado R. Mgr. Machado, Gama & Co., Caixa Postal No. Janeiro, Brazil.	2093	, Řio	de	$\{$ L.	Apr. Apr.	27, 26,	1916 1917
Gardner, Arnold C. Treas. Manomet Mills, 1 Clinton Pl., New Bedf	ord, I	Mass.		Ac.	Apr.	26,	1906
Gardner, N. L. R			Ŕ.	As.	Sept.	29,	1911

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Gardner, William B					Ac.	Sept.		1909
Garland, James P				٠	As.	Apr.	16,	1926
Garside, Alston H. Mgr. Industrial Service Dept., Merchants Mass.	Nat	ional	Bank,	Bo	As. ston,	Apr.	16,	1926
Garvin, James		•	٠	٠	Ac.	Oct.	20,	1917
Gary, E. Stanley . Pres. Gary Mfg. Co., 204–206 American B	ldg., I	Baltim	ore, N	id.	Ae.	Oct.	1,	1903
General Electric Company	٠	٠	٠		Sus.	May	24,	1917
Gibbs, E. Payson Supt. Pepperell Mfg. Co., Biddeford, Me.	•	•	•	٠	Ae.	Sept.	23,	1909
Gilliland, Charles L. Treas. Aberfoyle Mfg. Co., 1530 Bankers Pa.	Trust	$\dot{\mathrm{Bldg}}$., Phil	adel	Ae. phia,	Oct.	2,	1913
Gilman, Edward T					Ac.	May	5,	1922
Gilmore, George L				٠	Ae.	Apr.	29,	1916
Gilmore, K. M., & Co		٠			Sus.	June	4,	1917
Glennon, John F. Supt. Quissett Mills, New Bedford, Mass.		٠			Ae.	Apr.	16,	1926
Glennon, Thomas F	٠	٠			Ac.	Apr.	28,	1910
Gniessin, Vladimir F		٠			Ae.	Oct.	1,	1903
Goddard Brothers R. H. I. Goddard, Treas., Providence, R.	I.				Sus.	Nov.	8,	1918
Goddard, R. H. I	 I.				S.R.	Nov.	8,	1918
Godfrey, William C		hard,	Mass		As.	Oct.	29,	1890
Goerner, Gustav William					As.	Apr.	27,	1916
Goff, Albert H. The Textile-Finishing Machinery Co., Pro-					Ac.	Apr.	25,	1907
Goff, Lyman B. Pres. Union Wadding Co., Pawtucket, R.			•		Ae.	Sept.	21,	1905
Goldsmith, Wm. H., Jr		Iass.			As.	Oct.	20,	1917
Goodyear Cotton Mills, Inc. Ira A. MeDaniel, Asst. Treas., Killingly, C					Sus.	Feb.	8,	1918
Gordon, Beirne, Jr		., Üti	ca, N.	Ϋ́.	Ac.	Apr.	28,	1910

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Gordon, C. B. Pres. Dominion Textile Co., Ltd., 10 Victoria Sq., Montreal, Que Canada.	Ac. ebec,	Sept.	13,	1906
Gordon, Frank S	Ac.	Sept.	8,	1922
Gordon, Frederick B	Ac.	Apr.	26,	1900
Gosnold Mills Co	Sus.	Sept.	25,	1917
Goulston, Geo. A	As.	Nov.	13,	1924
Gourley, Hugh J. Agt. Warren Mfg. Co., Water St., Warren, R. I.	Ac.	Sept.	8,	1922
Goyette, A. Erland	Ac.	May	5,	1922
Grab, Max	Ac.	Apr.	6,	1922
Grandison, Ralph V	As.	June	29,	1920
Granite Mills	Sus.	June	20,	1918
Grant, George P., Jr	Ac.	Sept.	27,	1894
Grant Yarn Co	Sus.	May	12,	1917
Gray, William H Pres. and Treas. Dedham Finishing Co., Dedham, Mass.	Ac.	May	3,	1918
Greene, Edwin Farnham Treas. Pacific Mills, 24 Federal St., Boston, Mass.	Ac.	Apr.	24,	1902
Greene, Everett A	Ac.	May	4,	1920
Greene, F. Hartwell Treas. New England Southern Mills, 24 Federal St., Boston, M	Ac.	June	1,	1923
Greene, R. L., Paper Co	Sus.	Aug.	10,	1917
Greene, S. Harold Pres. New England Southern Mills, 24 Federal St., Boston, Ma	Ac.	Apr.	27,	1905
Greenhalgh, George T. Treas. Greenhalgh Mills, Pawtucket, R. I.	Ac.	Apr.	30,	1909
Greenough, Allan B	Ac.	Oct.	24,	1918
Greenville Finishing Company	Sus.	June	14,	1926
Greer, Samuel	Ac.	Apr.	24,	1923
Greer, William K	Ac.	Apr.	26,	1906
Greylock Mills	Sus.	May	15,	1917
Gridley, Oscar W	Ac.	Apr.	28,	1910

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Grinnell, Henry F		Ac.	Sept. 11, 1915
Grinnell Mfg. Corp. Joseph W. Webster, Treas., New Bedford, Mass.		Sus.	Mar. 18, 1918
Griswoldville Mfg. Co		Sus.	Jan. 21, 1918
Grosvenor-Dale Co		Sus.	Sept. 10, 1918
Grosvenor, William Pres. Grosvenor-Dale Co., P. O. Box 1384, Providence, R. I		Ac.	Apr. 28, 1910
Gunby, Frank M. c/o Charles T. Main, 200 Devonshire St., Boston, Mass.		As.	Apr. 26, 1917
Hagan, Thomas H	M	Ac.	June 5, 1925
Hague, Edwin D	٠	As.	Oct. 5, 1922
Hale, Frank J. Saco-Lowell Shops, 1 Federal St., Boston, Mass.		Ac.	Apr. 27, 1892
Hale, Roger D. Saco-Lowell Shops, 1 Federal St., Boston, Mass.	٠	As.	Oct. 14, 1925
Haley, Henry T		Ae.	Sept. 30, 1914
Hall, F. C		Ae.	Oct. 29, 1918
Hall, H. Dwight . Sec. Boston Mfrs. Mutual Fire Ins. Co., 185 Franklin St. Mass.	, B	As. oston,	June 1, 1923
Hall, Lindsay S		Ac.	Oct. 16, 1919
Hall, Walter B		Ae.	Apr. 25, 1901
Halliwell, William Agt. Lawton Spinning Co., Woonsocket, R. I.		Ac.	Sept. 26, 1901
Hanaford, John H		As.	May 3, 1918
Hannah, George K. Supt. Parkhill Mfg. Co., 70 Congress St., Fitchburg, Mass.		Ae.	Apr. 24, 1923
Hansahoe Mfg. Co		Sus.	Nov. 8, 1918
Hansen, Harold C. Boston Transcript, 324 Washington St., Boston, Mass.		$\{$ L.	Sept. 23, 1909 Sept. 23, 1910
Harden, Henry C. Agt. Great Falls Mfg. Co., Somersworth, N. H.		Ac.	May 3, 1918
Harding, Charles L. Pres. Whitman Mills, 77 Franklin St., Boston, Mass.		Ac.	Sept. 11, 1912
Harding, Tilton & Co., Newell W. Tilton, New York City.		Sus.	Dec. 17, 1917
Harmon, William C	٠	S.R.	Aug. 21, 1917

Elected
Harmony Mills Sus. May 10, 1917 John Skinner, Treas., Cohoes, N. Y.
Harris, Thomas
Harrison, Gilbert D
Harrison, Herbert As. Jan. 14, 1919 Agt. John Hetherington & Sons, Ltd., 49 Federal St., Boston, Mass.
Harrower, Francis D
Harrower, Gordon
Hartley, Frank
Hartshorne, William D L. Apr. 26, 1906 121 Johnson Street, Lynn, Mass.
Hastings, Walter M
Hatch, Roy O
Hathaway, Edgar F
Hathaway, Horatio
Hathaway Mfg. Co. Sus. Nov. 21, 1918 J. E. Stanton, Jr., Treas., New Bedford, Mass.
Haughton, M. Graeme L. Haughton & Co., 20 Central St., Boston, Mass.
Haurowitz, Stephen Carl
Havey, J. Fred Mgr. Foreign Sales Dept., Saco-Lowell Shops, 1 Federal St., Boston, Mass.
Hawes, William B
Haworth, Richard
Hayward, Harry T
Hazard, William H., Jr
Heap, Charles F
Heatley, Thomas E
Hedrick, Charles C. As. Apr. 23, 1908 c/o Mitsubishi Shoji Kaisha, Ltd., 15 Andojibashidori, 3 Chome, Minami-Ku Osaka, Japan.

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Hendry, Robert A			Ae.	June	eted 14,	1926
Herrick, Clifford E	Ř. І.		$\Lambda s.$	June	14,	1926
Herrick, Robert F., Jr			As.	Apr.	6,	1920
Herrick, Robert F			Ac.	Apr.	27,	1916
Herron, Alexander T	Co.,	À	Ac. lams,	Apr.	4,	1924
Hersey, Henry H	Co.,	Вo	As. oston,	Apr.	16,	1926
Hervey, Fred L	River,	i Ma	As.	May	5,	1919
Hewins, Edmund D	ton, A	Ias	As.	Oet.	5,	1922
Heyes, Fred L. Agt. Nonquitt Spinning Co., 449 Clinton St., New Bed	lford,	м́а	Ac.	Sept.	11,	1915
Hill, John H			As.	Apr.	16,	1926
Hill & Cutler Co. Laurance D. Chapman, Asst. Treas., New Bedford, Ma	ass.		Sus.	Mar.	7,	1924
Hill Mfg. Co. Chas. Walcott, Treas., Lewiston, Me.			Sus.	June	15,	1923
Hillman, Ralph G. Asst. Supt. Samson Cordage Works, Shirley, Mass.			Ac.	Apr.	16,	1926
Hinckley, Everett H. Borne-Scrymser Co., 17 Battery Pl., New York City.	•		As.	Aug.	3,	1921
Hinckley, George C			Ac.	Sept.	23,	1909
Hindle, Joseph H. Supt. Print Wks. Div. American Printing Co., Water S Mass.	t., Fa	ıi I	Ac. River,	June	1,	1923
Hitchcock, Thomas B			Ac.	Apr.	13,	1911
Hobbs, A. F. Vice Pres. New York Mills Corp., New York Mills, N.	Ϋ́.		S.R.	Feb.	10,	1920
Hobbs, Ernest S			Ac.	Oet.	29,	1918
Hobbs, Franklin W. Pres. Arlington Mills, 78 Chauncy St., Boston, Mass.			$\{$ L.	Apr. Apr.	27, 18,	$\frac{1899}{1917}$
Hodges, Charles E. Pres. American Mutual Liability Ins. Co., 142 Berkele Mass.	y St.,	Вc	As. ston,	Apr.	17,	1908
Holbrook, H. G			S.R.	Aug.	3,	1921
Holcomb, Clark W. New Bedford Boiler & Machine Co., P. O. Box 65), Mass.	Šew I	Bed	Ac. ford,	Sept.	21,	1905

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Holgate, Benjamin Agt. Boott Mills, Lowell, Mass.		Ac.	Jan.	12,	1922
Holmes, Charles M. Treas, Holmes Mfg. Co., New Bedford, Mass.		Ac.	Apr.	27,	1899
Holmes, Harold D		Ac.	May	1,	1924
Holmes Mfg. Co. Charles M. Holmes, Treas., New Bedford, Mass.	. 1	Sus.	Sept.		
Holt, John H. Treas. Luther Mfg. Co., P. O. Box 57, Fall River, Mass.		$\{L.$	Apr. Feb.		1903 1920
Homer, Arthur C. Treas. Pilgrim Mills, Fall River, Mass.		S.R.	July	17,	1917
Hood, Ernest N. Treas. Monomae Spinning Co., 78 Chauncy St., Boston, Mas	s.	Ac.	Oct.	20,	1917
Hooper, James P. Vice Pres. William E. Hooper & Sons Co., Baltimore, Md.	•	Ac.	May	3,	1918
Hooper, Robert P. Treas. Hooper Sons Mfg. Co., Juniper and Cherry Sts., Phila	delp	Ae. ohia,	Sept.	21,	1905
Pa. Hoosac Cotton Mills		Sus.	Feb.	21,	1918
Hopedale Mfg. Co. George Otis Draper, Vice Pres., Milford, Mass.		Sus.	July	1,	1919
Hopkins, John Anderson, Clayton & Co., 45 Franklin St., Boston, Mass.		S.R.	June	1,	1923
Hopkinson, Thomas Hopkinson Dyeing & Textile Works, Fall River, Mass.		Ac.	Apr.	25,	1912
Hopkinson Dyeing & Texture Works, Fair Aver, Faces Hopson, Harry B. Green & Hopson, Green Bldg., Springfield, Mass.		Ac.	Apr.	28,	1904
Houghton, Harry E. Supt. Spinning, Dartmouth Mfg. Co., Cove St., New Bedford	i. N	Ae.	Apr.	30,	1914
Howard Bros Mfg Co.		Sus.	Jan.	22,	1918
Herbert Midgley, Pres. & Gen. Mgr., Worcester, Mass. Howe, Dudley R. Director, Lockwood, Greene & Co., Mgrs., 24 Federal St., Mass.	Вс	Ac. oston,	Oet.	5,	1923
Howe, Frederick W. Vice Pres. Crompton & Knowles Loom Wks., P. O. Box 136 dence, R. I.	i, P	As. rovi-	Apr.	24,	1902
Howe, Henry S. Lawrence & Co., 89 Franklin St., Boston, Mass.		Ac.	Oct.	31,	1877
Howe, James Carlton . Vice Pres. Old Colony Trust Co., 17 Court St., Boston, Mas	s.	As.	Sept	11,	1912
Howe, Parkman D. Asst. Treas. Merrimack Mfg. Co., 53 State St., Boston, Mas		Ac.	Sept	. 11,	1915
Howe, Percival S., Jr. Wellington, Sears & Co., 66 Worth St., New York City.		Ae.	Mar	. 2,	1923
Howa Woodhury K		Ac.	June	7,	, 1919
Asst. Supt. Merrimack Mfg. Co., Lowell, Mass. Howland, Weston Supt. Gosnold Mills Co., New Bedford, Mass.		Ac.	Мау	1	, 1924

	Electo	ed
Hubbard, Samuel T	Sept. 13	3, 1906
Huggins, Gurry E	Apr. 3	0, 1914
Hunnewell, Arnold W	May	3, 1921
Hunsicker, Alvin	Apr. 3	0, 1909
Hunter, Henry P	Apr. 2	4, 1913
Huntoon, Harrison B., Jr	June	1, 1923
Huntoon, Maxwell C	June	1, 1923
Hyslop, Samuel	Sept. 3	0, 1908
Ilsley, John P. As. N. E. Mgr. Wing & Evans, Inc., 89 State St., Boston, Mass.	Oct.	6, 1921
Inches, Charles E. Ac. Treas. Androscoggin Mills, 77 Franklin St., Boston, Mass.	May	4, 1920
Interlaken Mills	Oct. 2	9, 1918
Ipswich Mills	June	6, 1924
Jackson, N. Baxter	Feb.	5, 1926
Jackson, P. T Ac.		
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass.	Sept. 2	1, 1905
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass. Jackson, S. Eugene Asst. Treas. Crown Mfg. Co., Pawtucket, R. I.		1, 1905 1, 1924
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass. Jackson, S. Eugene	May	,
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass. Jackson, S. Eugene Asst. Treas. Crown Mfg. Co., Pawtucket, R. I. Jamieson. Joseph B.	May Oct.	1, 1924
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass. Jackson, S. Eugene	May Oct. June 1	1, 1924 2, 1902
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass. Jackson, S. Eugene	May Oct. June 1 Aug.	1, 1924 2, 1902 4, 1926
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass. Jackson, S. Eugene	May Oct. June 1 Aug. Apr. 2	1, 1924 2, 1902 4, 1926 5, 1919
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass. Jackson, S. Eugene	May Oct. June 1 Aug. Apr. 2	1, 1924 2, 1902 4, 1926 5, 1919 7, 1905
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass. Jackson, S. Eugene	May Oct. June 1 Aug. Apr. 2 Oct.	1, 1924 2, 1902 4, 1926 5, 1919 7, 1905 5, 1907
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass. Jackson, S. Eugene Asst. Treas. Crown Mfg. Co., Pawtucket, R. I. Jamieson, Joseph B. Treas. Multiple Winding Co., 77 Summer St., Boston, Mass. Jamieson, Philip S. Vice Pres. Multiple Winding Co., Boston, Mass. Jelleme, W. O. Cohn-Hall-Marx Co., 93 Franklin St., New York City. Jenckes, Earl S. Vice Pres. & Gen. Mgr. Reading Cotton Mill, Jos. Baneroft & Sons Co. of Philadelphia, Reading, Pa. Jenckes, Frederick L. Treas. Manville Jenckes Co., Pawtucket, R. I. Jenks, Robert R. Pres. Fales & Jenks Machine Co., 320 Dexter St., Pawtucket, R. I. Jenks, Samuel A.	May Oct. June 1 Aug. Apr. 2 Apr. 2 Oct. Apr. 1	1, 1924 2, 1902 4, 1926 5, 1919 7, 1905 5, 1907 5, 1922

			Electe	ed
Johnson, Arthur R. Ridley Watts Co., 44 Leonard St., New York City.		As.	May	1, 1924
Johnson, Edward M	Box	As. 1376,	Apr. 29	9, 1915
Jones & Brown Co. William A. Jones, Pres., Boston, Mass.		Sus.	July 1	5, 1922
Jones, Allen Asst. Mgr. Beaver Mills, 102 Worth St., New York City		Ac.	Oct.	5, 1922
Jones, Ernest G Cooper & Brush, 826 Industrial Trust Bldg., Providence,		As.	May	5, 1919
Jones, William A. Pres. Jones & Brown Co., Boston, Mass.		S.R.	July 1	5, 1922
Judson, Wm. D	٠	S.R.	Nov. 2	3, 1918
Jury, Alfred E	ork Či	As.	Sept. 10	6, 1916
Kay, K. Binny & Co. (Madras) Ltd., Madras, India.		Ac.	June	6, 1924
Keeler, Lawrence M. Agt. Whitin Machine Wks., Whitinsville, Mass.		As.	Sept. 2	6, 1901
Kelley, Ahira Baker Bemis Bro. Bag. Co., 40 Central St., Boston, Mass.		Ac.	Apr. 1	3, 1911
Kelley, Timothy J. Vice Pres. Brighton Mills, Passaic, N. J.		Ac.	Apr. 3	0, 1909
Kendall, Henry P. Pres. Kendall Mills, 80 Federal St., Boston, Mass.		Ac.	Apr. 29	9, 1915
Kendall Mills H. G. Holbrook, Walpole, Mass.		Sus.	Aug.	3, 1921
Kenney, Frank B. Pres. T. C. Entwistle Co., 297 Market St., Lowell, Mass.		As.	Oct.	5, 1899
Kenney, Joseph T. Pres. Sharp Mfg. Co., New Bedford, Mass.		Ac.	May	3, 1918
Kern, William E., Jr		Ac.	Sept. 2	3, 1909
Kerr, James B		Ac.	Apr. 2	5, 1907
Killheffer, Elvin H. Vice Pres. Newport Chemical Wks., Inc., Passaic, N. J.		S.R.	Nov. 1	0, 1919
Killian, J. R		Ac.	Nov.	1, 1923
Kimball, William N		Ac.	Apr. 2	4, 1902
King, Alexander 177 Walnut St., East Orange, N. J.	٠	Ac.	Apr. 2	7, 1905
King, Gelston T. E. and F. King Co., Inc., 367 Atlantic Ave., Boston, Ma	ss.	As.	Nov. 13	3, 1924
King Philip Mills Simeon B. Chase, Treas., Fall River, Mass.		Sus.	June 1	4, 1918

		Elected
Kirk, John T. Gen. Supt. Nashawena Mill, 109 Bedford St., New Bedford, Ma	Ac.	Apr. 27, 1905
Klebart, Fred S	$\Lambda s.$	Apr. 25, 1912
Kleeb, Leonard, Jr	Ac.	May 3, 1918
Knight, Jesse A	Ac.	Oct. 26, 1892
Knight, Walter B	Ac.	Apr. 24, 1889
Knowland, Richard G. Con. Chemical Eng., 88 Broad St., Boston, Mass.	As.	Mar. 7, 1924
Knowlton, Harold W Treas. The Textile Development Co., 77 Summer St., Boston, M	Ae. Iass.	June 5, 1925
Knowlton, Harry W	As.	Nov. 1, 1923
Kunhardt, L. H	As. St.,	Oct. 2, 1913
Lamport Mfg. Supply Co	Sus.	Nov. 13, 1924
	S.R.	Nov. 13, 1924
Lamson, William A	As.	Apr. 27, 1916
	Sus.	Nov. 5, 1917
Lane, David F	Ae.	Dec. 5, 1924
Langdon, Duncan Vice Pres. & Gen. Mgr. S. Slater & Sons, Inc., Webster, Mass.	Ac.	Jan. 11, 1926
Lapham, Leonard C	Ac.	Apr. 25, 1907
Lasell, John W	As.	Feb. 5, 1926
Lasell, Josiah M	As.	Apr. 24, 1895
Latham, Wendell G	Ac.	June 5, 1925
Lawrence, James	As.	Sept. 30, 1914
Lawrence & Co., 89 Franklin St., Boston, Mass.	As.	Apr. 30, 1909
Lawrence & Co	Sus.	May 31, 1917
Lawrence Duck Co	Sus.	Mar. 15, 1918
Lawson, John	As.	Oct. 26, 1918

					Electe	ed	
Lawson, Ralph		•		As.	Oct. 2	0,	1917
Lawton Mills Corp., The				Sus.	Nov.	5,	1917
Leach, Joseph T. Supt. Durfee Mills, Fall River, Mass.				Ac.	Apr. 1	3,	1911
Leary, Frank J		٠		As.	Apr. 1	6,	1926
Lee, William S	narlot	te, N	. С	Ac.	Apr. 1	3,	1911
Leonard, Philip H. Mgr. Ipswich Mills, Ipswich, Mass.				Ac.	June 1	4,	1926
Leonard, Russell H Treas. Pepperell Mfg. Co., 160 State St., Boston,	Mass			Ac.	Apr. 2	9,	1915
Leonard, Wardwell C. Nashawena Mills, New Bedford, Mass.				Tech.	Mar.	2,	1923
Lewis, J. Colby Supt. Pemaquid Mills, Box 918, New Bedford, Ma	ass.			Ac.	Nov. 1	3,	1924
Libbey, W. Scott . Treas. W. S. Libbey Co., Lewiston, Me.				Ac.	$\mathbf{M}_{\mathbf{a}\mathbf{y}}$	5,	1922
Lincoln Mfg. Co				Sus.	July 3	0,	1917
Lindell, George A. The Textile Development Co., 80 Federal St., Bos	ton,	Mass		Tech.	Apr. 1	6,	1926
Lippitt, Henry F Gen. Mgr. Manville Co., P. O. Box 130, Providence	ce, R	. 1.		Ac.	Apr. 2	7,	1881
Little Androscoggin Water Power Co W. E. Winchester, Treas., Auburn, Me.				Sus.	Sept. 1	8,	1917
Livesey, Edwin V. Treas. Mt. Hope Spinning Co., 704 Grosvenor Bldg.	., Pro	viden	.ce,	Ac. R. I.	Sept. 1	7,	1910
Lockwood Co				Sus.	Aug. 1	0,	1917
Lockwood, Greene & Co., Inc Frank W. Reynolds, Vice Pres., Boston, Mass.				Sus.	Sept. 2	7,	1917
Lockwood, H. deForest Treas. Bates Mfg. Co., 60 Congress St., Boston, N.	lass.			Ac.	Apr. 1	3,	1911
Loftus, William H				Ac.	Oct. 2	8,	1897
Loper, Ralph E. & Co. Ralph E. Loper, Pres., Fall River, Mass.		•		Sus.	Nov.	1,	1923
Loper, Ralph E				S.R.	Nov.	1,	1923
Lord, Charles E				Ac.	May	3,	1921
Lord, Harry D				Ac.	Apr. 2	7,	1905
Lord, Henry G	lass.			S.R.	Mar.	1,	1918
Lord, John T. Supt. Pacific Mills, 215 Haverhill St., Lawrence, M	lass.			Ac.	Apr. 2	8,	1904

					Ele	rted	
Lorraine Mfg. Co., James R. MacColl, Pres., Saylesville, R. I.				Sus.	May	24,	1917
Lovering, William M	m, М	ass.		Ac.	Sept.	27,	1894
Low, J. J		•		As.	May	1,	1924
Lowe, Arthur H		•		Ac.	Oct.	30,	1889
Lowe, David				Ac.	Apr.	24,	1895
Lowe, John	eld, Q	uebec	C	Ac.	Apr.	28,	1910
Lowe, John				Ac.	Nov.	23,	1925
Lowe, Russell B				Ac.	Apr.	25,	1907
Lowe, Stephen C. Pres. S. C. Lowe Supply Co., New Bedford, Mas	s.			As.	Oct.	25,	1895
Lowe, Stephen C., Jr. 1143 Purchase St., New Bedford, Mass.				As.	Apr.	16,	1926
Lowell, A. Lawrence, LL.D. Pres. Harvard University, 19 Quincy St., Cambr	idge, l	Mass.		Hon.	Apr.	30,	1909
Luce, George E. Supt. Beaver Mills, Waterford Plant, Waterford				Ac.	Apr.	28,	1910
Luther Mfg. Co. John H. Holt, Treas., Fall River, Mass.				Sus.	Feb.	1,	1918
Lyall, William L. Chairman of Board, Brighton Mills, Passaie, N.	Ј.			Ac.	Oct.	26,	1892
Lyle, E. T. Vice Pres. Carrier Engineering Corp., 176 Federa	ıl St.,	Bosto	n,	$_{ m Mass.}^{ m As.}$	Mar.	6,	1925
Lyman, Herbert Vice Pres. Merrimack Mfg. Co., P. O. Box 5209,	Bost	on, M	ass	Ac.	Oct.	25,	1895
Lyman Mills Henry L. Sigourney, Asst. Treas., Holyoke, Mas	s.			Sus.	Dec.	5,	1918
Lynch, Francis		N. Y	· ·	Ac.	Jan.	12,	1922
Lynch, T. J			٠	As.	Sept.	30,	1914
MacColl, James R				$\{L.$	Apr. Sept.	24, 21,	$\frac{1895}{1905}$
MacColl, William B		•		Ac.	Apr.	13,	1911
MacEnroe, James F. 54 Wilson St., Phillipsburg, N. J.				Ac.	June	1,	1923
MacKinnon, Edward A. du Pont de Nemours, E. I. & Co., Inc., Boston,	Mass			S.R.	Dec.	29,	1917
McBee, William B			Box	As. : 1525,	Aug.	1,	1923

							Elec	eted	
McBee, William R. L Berkshire Cotton Mfg. Co., Adams,	Mass.	•	٠	٠		Ac.	Apr.	24,	1923
McCarty, Bernard F	dford,	Mass		•		Ac.	May	3,	1918
McCaughey, Edward J 51 Arlington St., Pawtucket, R. I.	•	•	٠	٠		Ac.	Apr.	26,	1906
McCausland, Ralph E Barber-Colman Co., Rockford, Ill.						As.	Apr.	12,	1911
McCormick, Charles A Treas. Chicopee Mfg. Corp., Chicop	ee Fal	ls, Ma	ISS.			S.R.	Sept.	12,	1917
McCrudden, James F	, Bank	ers T	rust B	uildir	ıg,	Ac. Phila-	Apr.	6,	1925
McDaniel, Ira A	Inc., K	Cillingl	ly, Соі	nn.		S.R.	Feb.	8,	1918
McDevitt, Frederick H Agt. Soule Mill, New Bedford, Mass	· S.		•			Ac.	Sept.	17,	1910
McDowell, James		•	•			Ac.	May	4,	1920
McDuffie, Charles D Supt. Everett Mills, Lawrence, Mas	s.					Ac.	Oct.	5,	1923
McDuffie, Frederic C. Treas. Everett Mills, P. O. Box 293-	4, Bost	ton, N	Iass.	٠		Ac.	Oct.	25,	1882
McElvie, John G Mgr. Mobile Cotton Mills, 320 Bros				City.		Ac.	June	14,	1926
McFadden, George H., & Bro. Isaac R. Thomas, Mgr., Boston, Ma						Sus.	Oct.	29,	1918
McFadden, J. Franklin	nut St	., Phil	adelpl	hia, P	a.	As.	Sept.	13,	1906
McFadden, Robert C Supt. Whitman Mills, New Bedford	, Mass					Ac.	Nov.	1,	1923
McFadden, Sands & Co James Lawrence, Boston, Mass.					•	Sus.	June	28,	1918
McGowan, Frank R	dards,	Dept.	of Co	mmer	ce,	Ac. Wash-	Oct.	5,	1922
McGregor, John A. Vice Pres. & Treas. Utica Steam & Utica, N. Y.	k Moh	nawk	Valley	Ċott	on	Ac. Mills,	Apr.	28,	1910
McHenry, Sidney C	Vare,	Mass.				Ac.	June	14,	1926
McIntyre, Joseph B 166 President Ave., Providence, R.						Ac.	Sept.	. 11,	1912
McKinley, William, Jr. W. H. Langley & Co., 77 Worth St.		York	City.			As.	Apr.	29,	1915
McKitterick, Edward H Vice Pres. Seamans & Cobb Co., 200					ass.	Ac.	June	14,	1926
McLoughlin, John E						Ac.	Apr.	25,	1907
McLoughlin, R. P. Treas. McLoughlin Textile Corp., U			•			Ac.	Sept.	. 13,	1906

		Elected	
McMahon, John . Treas. Fort Dummer Mills, Pawtucket, R. I.	. S.R.	Nov. 15.	
McNab, Allan, Jr. Vice Pres. Lockwood, Greene & Co., 24 Federal St., Boston,	. Ac. Mass.	Sept. 11,	1912
Macara, Charles W., Bart. Henry Bannerman & Sons, Ltd., 33 York St., Manchester, E	. Ac. ng.	Apr. 25,	, 1907
Macintyre, A. Fergusson Agt. Maginnis Cotton Mills, New Orleans, La.	. Ac.	June 15	, 1923
Mackay, Rowland N	. As.	Nov. 1	, 1923
Mackintosh, Charles E. Pres. & Treas. D. Mackintosh & Sons Co., Holyoke, Mass.	. S.R.	Aug. 1	, 1923
Mackintosh, D., & Sons Co. Charles E. Mackintosh, Pres., & Treas., Holyoke, Mass.	. Sus.	Aug. 1	, 1923
Macy, Frederick B. Frederick B. Macy & Co., 222 Union St., New Bedford, Mas	. Ac.	Apr. 25	, 1901
Maddex, Amos G. Supt. Mohawk Valley Cotton Mills, Utica, N. Y.	. Ac.	Oet. 18	, 1900
Main, Charles T	. Ac.	Oct. 28	, 1885
Mains, Robert 66 Leonard St., New York City.	. Ac.	Sept. 16	, 1916
Makepeace, Alexander . Supt. American Printing Co., Fall River, Mass.	. Ac.	Oet. 1	, 1903
Makepeace, Charles R	. Ac.	Apr. 30	, 1890
Makepeace, Charles S	. Ac.	Feb. 8	, 1921
Manley, John Warren . Sayles Bleacheries, 185 Arlington Ave., Providence, R. I.	. Ac.	Apr. 30	, 1909
Manson, Ernest T. Edward H. Best & Co., 222 Purchase St., Boston, Mass.	. As.	Oct. 2	, 1913
Manville Jenckes Co. Frederick L. Jenckes, Treas., Pawtucket, R. I.	. Sus.	Mar. 18	, 1918
Marble, C. F. Curtis & Marble Machine Co., 72 Cambridge St., Worcester,	As. Mass.	Mar. 6	, 1925
Marble, Edwin H. Pres. Curtis & Marble Machine Co., Worcester, Mass.	. S.R.	Apr. 8	, 1919
Marble, George Edwin Curtis & Marble Machine Co., 72 Cambridge St., Worcester,	. As. Mass.	May 1	, 1924
Marble, Herbert H. Treas. Arkwright Mills, P. O. Box 71, Fall River, Mass.	. Ac.	Apr. 30	, 1890
Marsh, Henry Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.	. As.	Apr. 30	, 1909
Marston, John P. 247 Atlantic Ave., Boston, Mass.	. { L.	Apr. 28 Apr. 25	, 1904 , 1907
Martin, Edward L. Sec. H. & B. American Machine Co., P. O. Box 678, Pawtuck	. As. et, R. I.	Apr. 25	, 1907
Marvin, Charles R	. Ac.	Oct. 2	, 1913

			Elected
Mason, Albert G Treas. Whitman Mills, New Bedford, Mass.		Ac.	Apr. 30, 1909
Mason, Frederic R		Ac.	Sept. 21, 1905
Mason, Henry W. Henry W. Mason & Co., 13 Market Sq., Providence, R. I.		As.	Apr. 27, 1905
Mason, Robert D., Co	٠	Sus.	Nov. 1, 1918
Massasoit Mfg. Co. P. S. Palmer, Treas., Fall River, Mass.		Sus.	June 20, 1918
Matos, Louis J National Aniline & Chemical Co., 40 Rector St., New York	. Ći	As.	Apr. 30, 1914
Mayor, John W	٠	As.	Sept. 30, 1908
Mead, Chas. E. Mgr. Cotton Research Co., 1020 Washington St., Boston,	Mas	Ac.	July 15, 1924
Meehan, George V		Ac.	Apr. 16, 1926
Mellor, Leonard H		Ac.	Aug. 3, 1921
Merchant, John S. Standard Mill Supply Co., P. O. Box 1534, Providence, R.	ı. ·	As.	Apr. 30, 1914
Merriam, Bernard F		Ac.	Apr. 25, 1907
Merriam, Joseph . Pres. Springfield Webbing Co., Middletown, Conn.		Ac.	Oet. 2, 1902
Merrimack Mfg. Co		Sus.	May 10, 1917
Merriman, Chas. H., Jr		Ac.	Apr. 24, 1895
Merriman, James G	٠	Ac.	Sept. 21, 1905
Merriman, William H	٠	Ac.	Sept. 30, 1908
Metcalf, Francis		Ac.	May 1, 1925
Metz, Herman A. Pres. H. A. Metz & Co., 122 Hudson St., New York City.		Ac.	Apr. 29, 1915
Midgley, Herbert . Pres. & Gen. Mgr. Howard Bros. Mfg. Co., Worcester, Ma	ss.	S.R.	Jan. 22, 1918
Millar, J. R. Gen. Mgr. California Cotton Mills Co., Oakland, Calif.		Ac.	Oct. 29, 1918
Miller, Earl Treas. United States Knitting Co., Pawtucket, R. I.		Ac.	June 5, 1925
Miller, Theodore F. Treas, Stead & Miller Co., 4th & Cambria Sts., Philadelph	ia, F	Ac.	Oct. 4, 1907
Milliken, Albert D. Agt. Hamilton Mfg. Co., Lowell, Mass.		Ac.	Apr. 25, 1907
Milliken, Joseph K. Treas. Mount Hope Finishing Co., North Dighton, Mass.		Ac.	Sept. 23, 1909

					Electe	d
Milliken, Roscoe S		٠		Ac.	Apr. 29), 1896
Minnick, John F. Supt. Dominion Textile Co., Ltd., Cote St. Paul Can.	Mor	treal	, Qu	Ac. iebec,	Sept. 16	3, 1916
Minot, Hooper & Co				Sus.	Jan.	1, 1919
Mitchell, John R. Pres. & Treas. Mitchell-Bissell Co., 334 Fourth A. City.	Aye.,	New '	Yor	k { L.		8, 1900 7, 1905
Mitchell, Nathaniel M. Supt. West Boylston Mfg. Co., Easthampton, M	ass.	•	٠	$\{L.$	Mar. : Mar. :	2, 1922 2, 1922
Mitchell, Robert L. Treas. Beaver Mills, 102 Worth St., New York C	ity.	٠		Ac.	Aug. 3	3, 1921
Mitchell, William A. Treas. Houston Textile Mills, Houston, Texas.				Ac.	Apr. 2	5, 1907
Moller, Kenneth	., Ne	w Yo	rk (Ac. City.	Apr. 29	9, 1915
Montgomery, George M. Vice Pres. & Sec. The J. R. Montgomery Co., W				Ac.	Sept. 23	2, 1904
Montgomery, J. R. Pres. The J. R. Montgomery Co., Windsor Lock:	s, Соі	nn.		Ac.	Sept. 29	9, 1898
Montgomery, The J. R. Co. John R. Montgomery, Pres., Windsor Loeks, Cor	in.			Sus.	July 17	7, 1917
Moody, Chas. P. Supt. Fisher Mfg. Co., Fisherville, Mass.				Ac.	Jan. 30	0, 1925
Moore, W. F. Treas. Hill Mfg. Co., 30 State St., Boston, Mass				$\{$ L.		2, 1922 2, 1922
Moore, Wm. L. Mgr. Alexander Sprunt & Son, Inc., 45 Franklin		Bosto	on. 1	As. Mass.	Oet. 18	8, 1923
Morrill, Ernest L				Ac.	Apr. 2	8, 1910
Morris, Edward N. The Lawton Mills Corp., 56 Worth St., New Yor	k Cit			Ac.	May	3, 1918
Morris, Lindsey The Ballinger Co., 12th & Chestnut Sts., Philade	elphia	, Pa.		As.	May 3	3, 1921
Morrissey, J. F. Supt. Interlaken Mills, Harris, R. I.				Ac.	May	1, 1925
Morse Chain Co				Sus.	Nov.	1, 1920
Morse, F. L Pres. Morse Chain Co., Ithaca, N. Y.				S.R.	Nov.	1, 1920
Morton, Albert H. 95 Harvard St., Lowell, Mass.				Ac.	Oct. 28	8, 1891
Morton, Charles				Ac.	May 3	3, 1918
Motley, Edward . Curtis & Sanger, 33 Congress St., Boston, Mass.				As.	Apr. 29	9, 1915
Mowry, Harold	ng, C	onn.	•	Ac.	Apr. 2	7, 1905

Munro, James, Jr.		As.	Elec Oet.	eted	1090
c/o J. H. Hanaford, 89 State St., Boston, Mass.	•	As.	Oet.	٠,,	1920
Murphy, Wilfred C. Pres. & Treas. Providence Mill Supply Co., 68 West Exch. Providence, R. I.	ange	As. St.,	Mar.	2,	1923
Murray, Joseph D. Asst. Treas. Holmes Mfg. Co., New Bedford, Mass.		Ae.	Apr.	16,	1926
Murti, E. N. Tanuku, West Godarari Dist., Pres'y Madras, India.	٠	$\left\{ _{\mathrm{L.}}\right.$	Apr. Apr.	25, 25,	1912 1912
Narragansett Mills Isaac A. Brown, Treas., Fall River, Mass.		Sus.	Aug.	12,	1918
Nashua Mfg. Co		Sus.	Aug.	11,	1917
National Aniline & Chemical Co. W. M. Vermilye, Executive Vice Pres., New York City.	٠	Sus.	Jan.	17,	1918
Naumburg, Robert E. Pres. Ren Mfg. Co., Winchester, Mass.		As.	Apr.	6,	1923
Naumkeag Steam Cotton Co. Nathaniel G. Simonds, Treas., Salem, Mass.		Sus.	Aug.	2,	1917
Neff, Robert W		$\{L.$	Apr. Apr.		$\frac{1902}{1904}$
Neild, Eli Asst. Supt. Nashawena Mills, New Bedford, Mass.		Ac.	June	14,	1926
Neild, Frank I. Pres. Neild Mfg. Corp., New Bedford, Mass.		Ac.	May	3,	1918
Nelson, E. K. Pres. Ridley Park National Bank, Ridley Park, Philadelphia	, Pa	$\left\{ \mathrm{L}.\right\}$	May June	3, 15,	1918 1918
New Bedford Spinning Co		Sus.	Apr.	16,	1926
Newburger, Joseph		As.	Sept.	11,	1915
Newburger, Samuel		As.	May	4,	1920
Newell, A. W. Sec. Hazard Cotton Co., P. O. Box 1394, Providence, R. I.		As.	May	5,	1919
Newell, Charles H. Asst. Treas. Baltic Mills Co., 510 Turks Head Bldg., Provide	ence	Ac., R. I.	Dec.	1,	1921
New England Southern Mills S. Harold Greene, Pres., Boston, Mass.	٠	Sus.	Nov.	5,	1917
Newington, John		As.	Apr.	16,	1926
Newmarket Mfg. Co		Sus.	Dec.	16,	1918
Newport Chemical Wks., Inc. Elvin II. Killheffer, Vice Pres., Passaic, N. J.		Sus.	Nov.	10,	1919
Newton, Henry Arthur Supt. Pacific Mills, Cocheco Dept., Dover, N. H.		Ac.	Apr.	24,	1923
Newton, J. Edward Treas. Barnard Mfg. Co., Fall River, Mass.		Ac.	Sept.	16,	1916

			Elected	
New York Mills Corp. A. F. Hobbs, Vice Pres., New York Mills, N. Y.		Sus.	Feb. 10,	1920
Nichols, Burt F	٠	As.	Dec. 5,	1918
Nichols, Charles B. Treas. Thorndike Co., 24 Milk St., Boston, Mass.		Ac.	Oct. 14,	1925
Nichols, F. W., Jr		Ac.	Feb. 14,	1920
Nichols, George Minot, Hooper & Co., 11 Thomas St., New York City.		Ac.	Sept. 11,	1916
Nichols, George		S.R.	Dec. 5,	1918
Nichols, Henry G. Treas. Otis Co., 24 Milk St., Boston, Mass.	٠	Ae.	June 1,	1923
Nichols, Henry W. Principal, Bradford Durfee Textile School, Durfee and B Fall River, Mass.	anks	Ac. Sts.,	Oct. 20,	1917
Nichols, Howard S. O. Treas. Great Falls Mfg. Co., 53 State St., Boston, Mass.	٠	Ac.	Sept. 29,	1911
Nichols, Rodman A. Nichols & Read, 73 Water St., Boston, Mass.		As.	May 3,	1918
Nichols, William G		Ae.	Oct. 25,	1893
Nivling, W. A. Huron Milling Co., 73 Tremont St., Boston, Mass.		As.	May 4,	1920
Nobska Spinning Co		Sus.	Jan. 12,	1918
Noone, Albert W	•	Ae.	Sept. 26,	1901
Noone, William R. Joseph Noone's Sons Co., 105 Washington St., Boston, Ma	ss.	As.	Oct. 28,	1897
Norton, Arthur L. Special Products Co., 261 Franklin St., Boston, Mass.		As.	June 19,	1919
Nyanza Mills		Sus.	Jan. 14,	1919
Nye, William H		As.	July 23,	1919
Odenheimer, S		Ac.	Oct. 25,	1893
O'Leary, Arthur L. Treas. Lambeth Rope Corp., New Bedford, Mass.		As.	,	1926
O'Malley, Charles J. Pres. O'Malley Advertising & Selling Co., 244 Washington Boston, Mass.	n Št	, { L.		1913 1913
O'Meara, James J. Supt. Fitchburg Yarn Company, Fitchburg, Mass.		Ac.	Nov. 13,	1924
Osborn, James E. Treas. Merchants Mfg. Co., Fall River, Mass.		Ac.	Apr. 27,	1916
Oswald, John G		Ae.	June 1,	1923

Otis Company			Sus.	Nov.	12,	1917
Otte, Henry . General Mgr. & Asst. Treas. The Ninigret Co., Pawtu	cket, 1	R.	Ac. I.	May	3,	1921
Otto, Hans c/o Heinrich Otto, Heichenbach, a.d. Fils, Wuerttemb			Ac.	Oct.	3,	1924
Owen, Charles D. Treas. Beacon Mfg. Co., New Bedford, Mass.			S.R.	Nov.	7,	1917
Owen, Harry C			As.	May	1,	1925
Pacific Mills			Sus.	May	18,	1917
Paige, Walter H	٠	•	Ac.	Nov.	23,	1925
Paine, Sidney B. ¹	•	•	Hon.	Apr.	16,	1926
Paine, Sidney S	oston,	Ň	Ac.	Apr.	27,	1916
Palmer, Edward E. General Electric Co., 84 State St., Boston, Mass.			As.	June	2,	1922
Palmer, P. S			S.R.	June	20,	1918
Palmer, Townsend SecTreas. The I. E. Palmer Co., Middletown, Conn.	٠		Ac.	Apr.	30,	1909
Park, Clifton D. The Cooling & Air Conditioning Corp., 31 Union Sq., W. City.		Kew	As. York	Oct.	29,	1918
Parker, J. Earle	•		Ac.	Feb.	2,	1923
Parker, Wilder & Co. Wm. D. Judson, New York City.	•		Sus.	Nov.	23,	1918
Parker, Winthrop. Supt. Cotton Mfg. Amoskeag Mfg. Co., Manchester,	N. Н.	•	Ac.	Sept.	30,	1908
Parkhill Mfg. Co	•	٠	Sus.	May	11,	1917
Parks-Cramer Co			Sus.	May	11,	1917
Parks, R. S	•		S.R.	May	11,	1917
Parsons, Brackett Asst. to Treas. Ipswich Mills, 160 State St., Boston, I	Mass.		Ac.	Apr.	24,	1923
Parsons, Winslow A		٠.	Ac.	May	3,	1918
Patterson, John L			Ac.	Apr.	13,	1911
Patterson, Samuel F			Ac.	Oct.	18,	1900
Payne, George F			Ac.	Apr.	28,	1910

Payson, C. C			As.	Elect Sept. 3		1914
Peabody, W. Rodman		,	S.R.	Aug.	1,	1923
Pearson, John A. The Esmond Mills, 21 East 26th St., New York City.	٠		Ac.	Apr. 3	0,	1914
Peck, Edwin R	onn.		Ac.	June 1	4,	1926
Pedler, William A. Agt. Acadia Mills, Lawrence, Mass.			Ac.	Apr. 3	0,	1914
Peirce, William C. Pres. Elizabeth Mills, Hills Grove, R. I.			Ac.	Apr. 2	4,	1895
Pennock, Gilbert V. Eustis, Pennock & Co., 118 Old Colony Ave., Wollaste	on, M	ass	As.	Sept. 1	1,	1915
Penrose, Charles Asst. Gen. Mgr. Day & Zimmermann, Inc., Philadelph			S.R.	Oct. 1	5,	1920
Pepler, Herbert H. Agt. Paco Mfg. Co., Danielson, Conn.			Ae.	June	5,	1925
Pepperell Mfg. Co. Russell H. Leonard, Treas., Biddeford, Me.			Sus.	Dec. 1	7,	1917
Pepperell, William S	Ŕ. I.		Ac.	Mar.	2,	1922
Perkins, Allan M. Treas, Renfrew Mfg. Co., Adams, Mass.			S.R.	Sept.	5,	1917
Perkins, John A. Agt. Harmony Mills, Cohoes, New York.			Ac.	Apr. 2	28,	1910
Perkins, Ralph C. Stafford Mills, Fall River, Mass.			Ae.	Apr. 2	26,	1910
Peters, Andrew J. Pres. Robert D. Mason Co., Pawtucket, R. I.			S.R.	Nov.	1,	1918
Peugnet, Ramsay Sec. & Treas. U. S. Testing Co., Inc., 340 Hudson S City.	i., N	ew	Ac. York	Apr. 1	7,	1908
Phillips, William D. Supt. Naumkeag Steam Cotton Co., 347 Lafayette St.	, Sale	m,	Ac. Mass.	Apr. 3	30,	1914
Pierce, Albert R. Supt. Pierce Mfg. Corp., New Bedford, Mass.			Ae.	Oct.	5,	1899
Pierce, Andrew G., Jr. Treas. Pierce Mfg. Corp., P. O. Box 733, New Bedford	d, M a	uss.	Ae.	Apr. 2	!3,	1895
Pierce Mfg. Corp. Andrew G. Pierce, Jr., Treas., New Bedford, Mass.			Sus.	Dec.	3,	1917
Pilgrim Mills Arthur C. Homer, Treas., Fall River, Mass.			Sus.	July 1	.7,	1917
Pinckney, Henry R. Supt. Lincoln Bleachery & Dye Works, Lonsdale, R. 1			Ac.	June 1	.4,	1926
Pingree, A. E. Supt. Ponemah Mills, Taftville, Conn.			Ac.	Apr.	4,	1924
Plunkett, Charles T	•		Ac.	Apr. 2	28,	1897
Pocasset Mfg. Co			Sus.	June	6,	1917

		Elected
Pond Lily Co., The	Sus.	Aug. 21, 1917
Ponemah Mills J. Arthur Atwood, Treas., Taftsville, Conn.	Sus.	Mar. 18, 1918
Porteous, John Pres. The Lawton Mills Corp., Plainfield, Conn.	Ac.	May 3, 1918
Potomska Mills Corp	Sus.	Nov. 21, 1918
Potter, Carl H	Ae.	Nov. 5, 1918
Potter, Charles H. Gen. Supt. The Montreal Cottons, Ltd., Valleyfield, Quebec,	Ac. Can.	Apr. 25, 1901
Pratt, Edward S Vice Pres. Samson Cordage Wks., 88 Broad St., Boston, Mass	As.	Apr. 26, 1917
Prentice, Robert W. Treas. Butler, Prentice & Co., Inc., 320 Broadway, New Yor	Ac. k City.	Apr. 24, 1913
Prest, George E	. Ac.	Apr. 24, 1902
Pritchett, Henry Smith, LL.D. The Carnegie Foundation, 522 Fifth Ave., New York City.	. Hon.	Sept. 26, 1901
Prosser, Isaac T	. Ac.	Apr. 25, 1912
Providence Dyeing, Bleaching & Calendering Co. John P. Farnsworth, Pres., Providence, R. I.	. Sus.	Oet. 29, 1918
Queen City Cotton Co. Andrew McLean Young, Treas., Burlington, Vt.	. Sus.	Apr. 24, 1918
Quinebaug Co., The Frank B. Ricketson, Asst. Treas., Danielson, Conn.	. Sus.	Sept. 10, 1918
Quinn, Frederick J. Treas. Atlas Yarn Co., 161 Devonshire St., Boston, Mass.	. Ac.	Apr. 26, 1906
Quinn, Patrick H	. Ae.	May 3, 1918
Quinton, W. W	. Ae.	June 15, 1923
Quissett Mill	. Sus.	Feb. 9, 1918
Rae, Benjamin G. Treas. Futurity Thread Co., 80 Bridge St., Newton, Mass.	. Ac	Apr. 29, 1915
Raeburn, Andrew See. New Bedford Cotton Mfrs. Assn., Masonic Bldg., New I Mass.	. Ac Bedford	Apr. 24, 1923
Ramsdell, Theodore E	. Ac	. Apr. 23, 1903
Rawlinson, M. A. Agt. Tremont and Suffolk Mills, Lowell, Mass.	. Ae	. Apr. 24, 1895
Raymond, Charles P	. As Mass.	. Apr. 29, 1915
Read, Charles O. Pres. Sayles Finishing Plants, 63 Summit St., Pawtucket, R.	. Ac	. Sept. 21, 1905

				Elec	ted.	
Reardon, John F			Ac.	Sept.		1922
Redman, H. Stewart			Ac.	Apr.	27,	1916
Renfrew Mfg. Co			Sus.	Sept.	5,	1917
Rennie, T. H			Ac.	Oct.	18,	1900
Reoch, Robert A. S	3.		Ac.	Sept.	17,	1910
Reynolds, Arthur W Lockwood, Greene & Co., Inc., 24 Federal St., Boston, 2	Mass.		As.	June	14,	1926
Reynolds, Frank W	, 3.		S.R.	Sept.	27,	1917
Reynolds, Frederic W			Ac.	Apr.	26,	1900
Rice, Raymond A. Treas. Southbridge Printing Co., Southbridge, Mass.			Ac.	Oet.	20,	1917
Richardson, Charles O. Treas, Warwick Mills, 49 Federal St., Boston, Mass.			Ac.	Apr.	25,	1912
Richardson, E. R	vtuck	et,	Ac. R. I.	Apr.	13,	1911
Richardson, Harry			Ac.	Nov.	3,	1921
Richmond, Lawrence	•		Ac.	Jan.	30,	1925
Ricketson, Frank B			Ac.	Apr.	13,	1911
Riley, Charles E	St.,	Bo	Ac. ston,	Apr.	25,	1888
Riley, Richard G. Supt. King Philip Mills, Fall River, Mass.			Ac.	Apr.	25,	1907
Ritter, William H. Asst. Sec. Chicopee Mfg. Corp., 266 George St., New Bru N. J.	inswid	ek,	{ L.	May June		1918 1918
Rivinius, George A. G. A. Rivinius & Co., 53 State St., Boston, Mass.	•		As.	Jan.	11,	1924
Robbins, Charles H. Supt. Manomet Mill, No. 4, New Bedford, Mass.	•		Ac.	May	3,	1918
Roberts, George N	•		S.R.	June	6,	1917
Roberts, Joseph			Ac.	May	3,	1918
Robertson, George W Gen. Supt. Riverside & Dan River Cotton Mills, Danvi	ille, V	a.	Ac.	Apr.	26,	1906
Robertson, William H. Treas. The Robertson Bleachery & Dye Wks., Inc., 2 Conn.			Ac. lford,	Sept.	16,	1916
Robinson, C. M	•		Ac.	June	29,	1920

		Elected
Rockwell, Foster	As.	Mar. 6, 1925
Rockwood, George I. Rockwood Sprinkler Co., 38-56 Harlow St., Worcester, Mass.	{ L.	Apr. 25, 1901 Apr. 25, 1901
Rodman, Lee Pres. & Treas. Indiana Cotton Mills, Cannelton, Ind.	Ae.	Sept. 17, 1910
Rogers, Leon B	As.	Oct. 19, 1917
Rooney, George W. Supt. New Hampshire Spinning Mills, 31 Canal St., Penacook, N	Ae. V. H.	Sept. 30, 1914
Rousmaniere, John E	Ac.	Apr. 13, 1911
Rowe, F. E., Jr	As.	Apr. 24, 1923
Rowley, Frank G. Treas. Seakonk Lace Co., 260 Central Ave., Pawtucket, R. I.	{ L.	Oet. 20, 1917 Nov. 20, 1917
Royal Mfg. Co	Sus.	Nov. 13, 1924
Rudloff, John A	Ae.	June 5, 1925
Rusden, E. A. Pres. The Textile-Finishing Machinery Co., 83 Exchange Pl., Pdence, R. I.	As. rovi-	Sept. 21, 1905
Russell, Howard I. Treas. & Mgr. Russell Mfg. Co., Manchester, N. H.	Ac.	Apr. 13, 1911
Saco-Lowell Shops	Sus.	May 18, 1917
Safford, Arthur Truman	Ac.	Nov. 12, 1919
Sagar, Alfred Trens. Bolton Worsted Mill, Inc., Methuen, Mass.	Ac.	Apr. 24, 1902
St. Amant, George W	As.	Oct. 4, 1907
Salisbury, Everett E	Ac.	Sept. 30, 1908
Sanborn, W. K. Supt. American Net & Twine Co., R. W. Lord Mill, West Kennel Me.	Ae. ounk,	Apr. 25, 1907
Sanderson & Porter F. G. Coburn, Mgr., New York City.	Sus.	Dec. 7, 1923
Sands, Harold A. McFadden, Sands & Co., 115 Chestnut St., Philadelphia, Pa.	As.	Apr. 29, 1915
Sanford, Pardon B. Supt. Chalmers Knitting Co., Amsterdam, N. Y.	Ae.	Oet. 2, 1902
Schaellibaum, Robert	$\{$ L.	Sept. 22, 1904 Sept. 22, 1907
Schloss, Frederick H	Ac.	Jan. 11, 1926
Schofield, James	Ae.	May 4, 1920

		Elected
Scott, Albert L Vice Pres. Lockwood, Greene & Co., Inc., 24 Federal St., Bos Mass.	Ac.	Sept. 11, 1912
Scott, David C. Henry L. Scott & Co., P. O. Box 963, Providence, R. 1.	As.	May 4, 1920
Seabury, Arthur G. Treas, New Bedford Shuttle Co., New Bedford, Mass.	Λs .	Apr. 16, 1926
Seabury, Dwight	As.	Apr. 25, 1901
Seaton, Thomas J. Vice Pres. & Supt. The Floyd Cranska Co., Moosup, Conn.	Ae.	Nov. 1, 1923
Sergeson, Allan M. R. Sergeson & Co., Philadelphia, Pa.	As.	June 5, 1925
Seydel, Hermann Pres. Seydel Chemical Co., 86 Forrest St., Jersey City, N. J.	Λe .	Apr. 28, 1910
Shaw, A. F	S.R.	June 14, 1926
Shaw, Benjamin C. Supt. Boston Duck Co., Bondsville, Mass.	Ac.	Oct. 29, 1918
Shaw, John F. Supt. Great Falls Mfg. Co., Somersworth, N. H.	Ac.	Apr. 16, 1926
Shawmut Mills	Sus.	Dec. 3, 1918
Sheldon, Arthur N. F. P. Sheldon & Son, 1009 Hospital Trust Bldg., Providence, R	As. . I.	Sept. 13, 1906
Shelters, Ernest E. Supt. Tremont & Suffolk Mills, Lowell, Mass.	Ac.	Apr. 30, 1909
Shove, W. Frank . Treas. Pocasset Mfg. Co., Fall River, Mass.	Ac.	Sept. 22, 1904
Sigourney, Henry L	S.R.	Dec. 5, 1918
Simonds, Henry G	Ac.	Apr. 16, 1926
Simonds, Nathaniel G. Treas, Naumkeag Steam Cotton Co., Salem, Mass.	Ac.	Apr. 27, 1898
Sinclair, James	S.R.	Jan. 14, 1919
Skinner, John Treas, Harmony Mills, Cohoes, N. Y.	Ac.	Apr. 26, 1906
Slade, Abbott E	Ac.	Oct. 25, 1893
Slater, S., & Sons, Inc. H. Nelson Slater, Pres., Webster, Mass.	Sus.	June 6, 1924
Slater, H. Nelson Pres. S. Slater & Sons, Inc., Webster, Mass.	S.R.	June 6, 1924
Slocum, Charles P. Corn Products Refining Co., New York City.	S.R.	Mar. 2, 1918
Slocum, Thomas W	S.R.	Jan. 1, 1919
•		

Smith, Abbott M			As.	Apr.		1923
Smith, Abbott P			As.	Sept.	13,	1906
Smith, Albert E Agt. New Bedford & Agawam Finishing Co., East Wa	rehan	n, M	Ac. lass.	Dec.	7,	1923
Smith, Albert G			Ac.	Apr.	30,	1909
Smith, Alphonso H. Prop. Slocum & Kilburn, 23–27 No. Water St., New H	Bedfor	d, N	As. Iass.	Apr.	6,	1923
Smith, Archer J. Pres. The American Mills Co., Waterbury, Conn.	•		Ac.	Apr.	26,	1906
Smith, D. Allen Mgr. Alexander Sprunt & Son, Inc., Poston, Mass.			S.R.	Oct.	18,	1923
Smith, Frederick K. Supt. Cotton Dept., Ipswich Mills, Ipswich, Mass.			Ac.	Apr.	24,	1923
Smith, Henry Kay 500 East 6th St., Jamestown, N. Y.	٠		Ac.	Oct.	4,	1907
Smith, J. Foster			Ac.	May	3,	1918
Smith, Joseph J. Firth-Smith Co., P. O. Box 5114, Boston, Mass.			As.	Sept.	11,	1912
Smith, Robert P. Smith, Drum & Co., Alleghany Ave. & 5th St., Philad	elphia	. Pa	As.	Apr.	24,	1923
Smith, Thomas Henry 500 East 6th St., Jamestown, N. Y.			Ac.	Apr.	30,	1884
Smith, William Prin. New Bedford Textile School, New Bedford, Mas	s.		Ac.	May	3,	1921
Smyth, Ellison A			Ac.	Apr.	13,	1911
Sneddon, George			Ac.	Apr.	25,	1912
Soucy, Ernest W. Saco-Lowell Shops, 1 Federal St., Boston, Mass.			As.	Apr.	6,	1923
Soule Mill Fred H. McDevitt, Agent, New Bedford, Mass.			Sus.	Nov.	27,	1918
Soule, Rufus A., Jr. Treas. Soule Mill, New Bedford, Mass.			Ac.	Apr.	26,	1906
Southworth, Irving Agt. Pacific Mills, Lawrence, Mass.			Ac.	Apr.	13,	1911
Spence, Henry C. Indian Orchard, Mass.			As.	Apr.	24,	1895
Spencer, Antonio Pres. U. S. Ring Traveler Co., 341 Butler Exchange dence, R. I.	$\dot{\mathrm{Bldg}}$., P	Ae. rovi-	May	3,	1918
Spofford, George E. Vice Pres. Langley Mills, Langley, S. C.			Ac.	Apr.	29,	1896
Sprunt, Alexander & Son, Inc			Sus.	Oct.	18,	1923
Stackhouse, Clarence D			As.	Nov.	13,	1924

Stafford Co., The George P. Erhard, Pres., Boston, Mass.				Sus.	Elected Apr. 1, 1918
Stanton, J. E., Jr	s.			S.R.	Nov. 21, 1918
Staples, Willard F. Wamsutta Mills, New Bedford, Mass.		٠		Ac.	Apr. 16, 1926
Stark Mills . F. Hartwell Greene, Treas., Boston, Mass.				Sus.	June 1, 1923
Stearns, Frances U				Ac.	Apr. 30, 1909
Stearns, George R			٠	Ac.	Apr. 30, 1890
Stearns, Walter H				Ac.	May 5, 1922
Steele, Fred W				Ac.	Sept. 11, 1912
Steele, George F. Dist. Mgr. P. & M. Dept., General Electric Co., Mass.	84 St	ate St	., B	As. oston,	Sept. 17, 1910
Steere, Robert E. Supt. Lorraine Mfg. Co., 84 Olive St., Pawtuck	et, R.	ı.	٠	Ac.	July 10, 1925
Steere, Samuel A	Rubl	er Co	., A	Ac. Akron,	Oct. 5, 1920
Steinbach, Winthrop E				Ac.	Aug. 3, 1921
Stevens, Dexter				Ac.	Apr. 25, 1907
Stevens, John A	Iass.			Ac.	Apr. 25, 1907
Stevens Mfg. Co				Sus.	Aug. 20, 1917
Stevenson, T. B		٠		Ac.	Apr. 26, 1900
Stewart, Samuel				Ac.	Apr. 23, 1903
Stiles, Walter F		٠		Ac.	Sept. 23, 1909
Stimpson, Wallace I				As.	Sept. 21, 1905
Stoddard, Wallace E	, Mas	s.		Ac.	June 29, 1920
Stokes, Edward C				Hon.	Sept. 21, 1905
Stone, Ira A				S.R.	Nov. 13, 1924
Stone, Malcolm B	Bosto	n, Ma	ss.	Ac.	Apr. 25, 1912
Storrow, Charles & Co				Sus.	Mar. 6, 1925

Storrow, E. C. Charles Storrow & Co., Boston, Mass.		S.R.	Elected Mar. 6, 1925
Strang, James Saco-Lowell Shops, 1 Federal St., Boston, Mass.		.As.	Oct. 28, 1897
Straw, Herman F. Cons. Engineer, Amoskeag Mfg. Co., Manchester, N. H.		Ac.	Oet. 28, 1885
Straw, William Parker. Agt. Amoskeag Mfg. Co., Manchester, N. H.		Ac.	Oet. 4, 1907
Strongman, John B		Ae.	Apr. 26, 1917
Sturtevant, Harold B. Supt. Waltham Bleachery and Dye Works, Waltham, Mass.		Ac.	Oct. 3, 1924
Sullivan, John Agt. Taber Mill, New Bedford, Wass.		Ae.	Apr. 27, 1899
Sullivan, Timothy, 314 Cory St., Fall River, Mass.		Ac.	Apr. 27, 1899
Summersby, George Amory, Browne & Co., 48 Franklin St., Boston, Mass.		Ac.	Sept. 21, 1925
Suncook Mills		Sus.	Aug. 1, 1923
Sutton, E. V. Treas. Hansahoe Mfg. Co., Valley Falls, R. I.		S.R.	Nov. 8, 1918
Sweet, Chas. A. Wellington, Sears & Co., 93 Franklin St., Boston, Mass.		Ac.	Sept. 21, 1925
Sweetser, John A. Bliss, Fabyan & Co., 45 Franklin St., Boston, Mass.		Ac.	June 5, 1925
Swift, Arthur Clinton Gen. Mgr. Sharp Manufacturing Co., New Bedford, Mass.		Ac.	Apr. 6, 1923
Swift, E. Kent Treas. Whitin Machine Works, Whitinsville, Mass.		S.R.	Nov. 1, 1918
Swope, Gerard Pres. General Electric Co., New York City.		S.R.	May 24, 1917
Taber, Frederick		Ac.	Apr. 26, 1906
Taber Mill		Sus.	May 17, 1917
Tabor, Charles A		Ac.	Apr. 27, 1905
Taft, Robert W		Ae.	Sept. 27, 1894
Takatsuji, Narazo		Ac.	Apr. 17, 1908
Tarr, Henry M. Traffic Mgr. Cotton Piece Goods Traffic Assn., 13 Market Sedence, R. I.	1.,	Ac. Provi-	June 2, 1922
Taylor, Daniel L		Ac.	June 2, 1922
Taylor, Havila B. Supt. Cotton Dept. Pacific Mills, 193 Bailey St., Lawrence,	M	Ae. ass.	Oct. 29, 1918

	Elected	
Taylor, James W. Agt. Fuld & Hatch Knitting Co., P. O. Box 144, Cohees, N. Y.	e. Oct. 26, 1	892
Taylor, Samuel	e. Oet. 1, 1	903
Tenney, George A	e. Sept. 29, 1	911
Textile Development Co., The Sidney S. Paine, Pres., Boston, Mass.	is. May 1, 1	925
Thatcher, Albert G. A. Chairman of Board, Standard-Coosa-Thatcher Co., Philadelphia, P.	e. Apr. 27, 1 a.	[916
Thayer, Gay D	s. Apr. 25, 1	1907
Thayer, Nathaniel N	s. Apr. 13, 1	911
Thomas, Isaac R	R. Oct. 29, 1	918
Thomas, Norman T. A. Agent, Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	e. Oct. 1 6, 1	919
Thompson, Albert W	.e. Apr. 30, 1	[909
Thompson, Gilbert T	.e. Apr. 30, 1	1914
Thompson, Henry B A. Pres, U. S. Finishing Co., 320 Broadway, New York City.	.e. May 3, 1	1918
Thompson, James O., Jr	.e. Oct. 18, 1	1900
Thompson, Philip E	.c. Feb. 5, 1	1926
Thomson, Charles R	.e. Apr. 27, 1	1905
Thomson, James	.c. Apr. 25, 1	1907
Thoron, Ward Treas. Merrimack Mfg. Co., P. O. Box 5209, Boston, Mass.	.e. May 4, 1	1920
Tifft, Emerson B. Asst. Supt. Harmony Mills, SI Vliet St., Cohoes, N. Y.	.e. Mar. 7, 1	1924
Tilton, Newell W. Harding, Tilton & Co., New York City.	R. Dec. 17, 1	1917
Tobin, John E. Supt. Queen City Cotton Co., Burlington, Vt.	e. June 4, 1	1919
Todd, W. O. Pres. & Treas. Pocasset Worsted Co., Inc., Thornton, R. I.	.e. Oet. 18, 1	1900
Totckett Mfg. Co. Calvin H. Frisbie, Pres., Versailles, Conn.	ıs. July 20, 1	1918
	.e. Oct. 2 9, 1	1918
Towne, George W	c. Oct. 26, 1	1892
Troy Cotton & Woolen Manufactory	ıs. Sept. 10, 1	1918

Tuck, Parker Supt. Houston Textile Mills, Houston, Tex. Ac. Feb. 2, 1923 Supt. Houston Textile Mills, Houston, Tex. Tucker, Philip M. Pres. Philip M. Tucker Co., 201 Devonshire St., Boston, Mass. Ac. Apr. 25, 1913 Apres. Louisville Mills Co., 1318 McHenry St., Louisville, Ky. Ac. Oct. 18, 1906 Apres. Louisville Cotton Mills Co., 1318 McHenry St., Louisville, Ky. Tunstall, Harry 12 Maple Ave., Fairhaven, Mass. Ac. Sept. 21, 1908 Apres. Chester Lace Mills, Chester, Pa. Turner, Chas. A. Pres. Chester Lace Mills, Chester, Pa. Ac. Apr. 29, 1896 Apr. Agt. Everett Mills, Lawrence, Mass. Underdown, Walter H. Treas. New Bedford Cotton Mills Corp., New Bedford, Mass. Ac. Sept. 23, 1908 Apr. 1918 Apr. Apr. Apr. 290 Apr. 29	
Tucker, Philip M. Tucker Co., 201 Devonshire St., Boston, Mass. Tuley, Philip S. Ac. Oct. 18, 1900 Pres. Louisville Cotton Mills Co., 1318 McHenry St., Louisville, Ky. Tunstall, Harry Ac. Ac. Sept. 21, 1900 12 Maple Ave., Fairhaven, Mass. Turner, Chas. A. Ac. Ac. Mar. 7, 192 Pres. Chester Lace Mills, Chester, Pa. Twiss, William D. Ac. Ac. Apr. 29, 1890 Agt. Everett Mills, Lawrence, Mass. Underdown, Walter H. Ac. Ac. Ac. Ac. Jan. 11, 192 Hunter Mfg. & Comm. Co., 58 Worth St., New York City. United Piece Dye Wks. Abert G. Sus. Feb. 12, 191 Abert Blum, Treas., Lodi, N. J. Vaughan, Wanton Gen. Mgr. Paco Mfg. Co., 251 Causeway St., Boston, Mass. Vermilye, Wm. M. Ac. Oct. 5, 192 Wickery, Robert G. Ac. June 1, 192	Elected Ek, Parker
Tuley, Philip S	Sker Philip M Ac Apr 25 1912
Tunstall, Harry	ev Philip S
Turner, Chas. A	nstall. Harry
Agt. Everett Mills, Lawrence, Mass. Underdown, Walter H. Treas. New Bedford Cotton Mills Corp., New Bedford, Mass. Underwood, Chas. S. Hunter Mfg. & Comm. Co., 58 Worth St., New York City. United Piece Dye Wks. Albert Blum, Treas., Lodi, N. J. Vaughan, Wanton Gen. Mgr. Paco Mfg. Co., 251 Causeway St., Boston, Mass. Vermilye, Wm. M. 930 Madison Ave., Plainfield, N. J. Vickery. Robert G. Ac. Sept. 23, 1909 Ac. Jan. 11, 192 Ac. June 1, 192	rner, Chas. A
Treas. New Bedford Cotton Mills Corp., New Bedford, Mass. Underwood, Chas. S	iss, William D
Hunter Mfg. & Comm. Co., 58 Worth St., New York City. United Piece Dye Wks	
United Piece Dye Wks.	derwood, Chas. S
Gen. Mgr. Paco Mfg. Co., 251 Causeway St., Boston, Mass. Vermilye, Wm. M	ited Piece Dye Wks Sus. Feb. 12, 1918
930 Madison Ave., Plainfield, N. J. Vickery, Robert G	
Vickery, Robert G	milye, Wm. M
	kerv. Robert G Ac. June 1, 1923
Wade Publishing Co., The Sus. Apr. 6, 192 Frederick L. Babcock, Editor, Cambridge, Mass.	de Publishing Co., The Sus. Apr. 6, 1922 Frederick L. Babcock, Editor, Cambridge, Mass.
Wadleigh, Jude C. Ac. Oct. 26, 189 Agt. Merrimack Mfg. Co., Lowell, Mass.	dleigh, Jude C
Mar. 2, 192	gg. Frederick E
Walcott, Charles S.R. June 15, 192 Treas. Hill Mfg. Co., Lewiston, Me.	
	len, E. Dean
	lker, Edward P
	lker, Frank A As. Apr. 16, 1926
	lker, Thomas H
	llace Robert S
	Imsley Herbert Ac. Sept. 30, 1908
	lsh, Frederick T Ac. Apr. 28, 1897
, , , , , , , , , , , , , , , , , , ,	Jsh. James J. As. June 1, 1923

				Elected
Wampanoag Mills			Sus.	Dec. 7, 1917
Wamsutta Mills			Sus.	Sept. 10, 1917
Ward, Benjamin I. Pres. Bellman Brook Bleachery Co., Fairview, N. J.			Ac.	Sept. 30, 1908
Warren, Edward A			As.	Oct. 30, 1917
Warren Mfg. Co			Sus.	July 29, 1918
Waterman, Frank E. Asst. Treas. Butler Mill, New Bedford, Mass.	٠		Ac.	Jan. 30, 1925
Warwick Mills Charles O. Richardson, Treas., Centreville, R. I.			Sus.	Jan. 29, 1919
Watson, Clifton E			As.	Feb. 2, 1923
Wattles, Fred E. Asst. Supt. New Hampshire Spinning Mills, Penaco	ok, N.	н.	Ac.	Oct. 5, 1899
Watts, Ridley Ridley Watts & Co., 44 Leonard St., New York City.			Ac.	Apr. 25, 1907
Watts, Ridley & Co			Sus.	Nov. 1, 1918
Wauregan Co., The			Sus.	Sept. 10, 1918
Waypoyset Mfg. Co			Sus.	Jan. 28, 1919
Webb, Andrew S. Treas. Charles J. Webb Sons Co., Philadelphia, Pa.		•	S.R.	Aug. 3, 1921
Webb, Charles J. Sons Co			Sus.	Aug. 3, 1921
Webster, Joseph W. Treas. Grinnell Mfg. Corp., New Bedford, Mass.			Ac.	Apr. 28, 1910
Wellington, Sears & Co. Harry L. Bailey, Boston, Mass.			Sus.	Nov. 13, 1924
Welton, A. Roy 140 Woodland St., Lawrence, Mass.			As.	May 1, 1924
Wentworth, Philip C. Treas., National Ring Traveler Co., 257 West Exc	hange	St., 1	As. Provi-	May 3, 1921
dence, R. I. West, Alexander S. U. S. Gutta Percha Paint Co., 12 Dudley St., Provi	idence	R. I.	$\Big\{_{\rm L.}$	Apr. 17, 1908 Apr. 17, 1915
West, William R			Ac.	Sept. 22, 1896
Westerly Textile Co., The			Sus.	Apr. 16, 1926
Whidden, William B. Sales Repres. American Cellulose & Chemical C Boston, Mass.	o., 24	Mill	As. c St.,	Nov. 23, 1925
Whipple, Walter	•		Ac.	Sept. 13, 1906

		Elec	ted	
Whitaker, James D. Agt. Lola Cotton Mills, 683 Atlantic Ave., Boston, Mass.	Ac.	Мау	1,	1924
Whitaker, James L. William Whitaker & Sons, Olney, Philadelphia, Pa.	Ac.	Sept.	,	
Whitaker, Wharton V. P. & Gen, Mgr. William H. Haskell Mfg. Co., Pawtucket, R. I.	$\{$ L.	Mar. Mar.		
White, John S	S.R.	Nov.	1,	1920
White, Nelson D. Gen. Mgr. N. D. White & Sons, Winchendon, Mass.	Ac.	Sept.	11,	1912
Whitehead, H. R. Agt. Pepperell Mfg. Co., Biddeford, Me.	Ae.	July	10,	1925
Whitehead, James H. Trens. Boston Mfg. Co., Boston, Mass.	S.R.	May	31,	1917
Whitin, Arthur F. Pres. Saunders Cotton Mills, Whitinsville, Mass.	Ac.	Apr.	24,	1895
Whitin, Henry T. Treas. Paul Whitin Mfg. Co., Northbridge, Mass.	Ac.	Apr.	25,	1877
Whitin Machine Wks E. Kent Swift, Treas., Whitinsville, Mass.	Sus.	Nov.	1,	1918
Whitin, Paul, Mfg. Co. Henry T. Whitin, Pres., Northbridge, Mass.	Sus.	Jan.	22,	1918
Whitin, Paul Treas. Paul Whitin Mfg. Co., Northbridge, Mass.	Ac.	Oct.	1,	1903
Whitin, Richard C. Asst. Treas. Paul Whitin Mfg. Co., Northbridge, Mass.	Ac.	Jan.	11,	1926
Whiting, George H. B. H. Dickson & Co., 141 Milk St., Boston, Mass.	As.	June	14,	1926
Whitman, Clarence, & Son, Inc. C. Morton Whitman, Vice Pres., New York City.	Sus.	Dec.	18,	1918
Whitman, C. Morton Vice Pres. Clarence Whitman & Son, Inc., New York City.	S.R.	Dec.	18,	1918
Whitman, Harold C. Treas. The Esmond Mills, 21 East 26th St., New York City.	Ac.	Apr.	25,	1907
Whitman, Hendricks H. Monomac Spinning Co., 78 Chauncy St., Boston, Mass.	Ac.	Apr.	29,	1915
Whitman, Malcolm D. William Whitman Co., Inc., 25 Madison Ave., New York City.	As.	Apr.	25,	1912
Whitman Mills Albert G. Mason, Treas., New Bedford, Mass.	Sus.	Feb.	8,	1918
Whitman, William Pres. Nonquitt Spinning Co., P. O. Box 100, Essex Station, Bo	Ac. oston,	Apr.	25,	1901
Whittaker, John G. Mgr. Lincoln Bleachery & Dye Works, Lonsdale, R. I.	Ac.	Apr.	17,	1908
Whittenton Mfg. Co. John S. Farlow, Asst. Treas., Taunton, Mass.	Sus.	Jan.	30,	1925
Whittier, Stephen T	Ac.	Apr.	13,	1911

Whittier, W. R. B	Ac.	Elected Oct. 18, 1900
Wiggin, Frederic S	Ac.	Oct. 29, 1918
Wiley, Jesse S. Treas. Columbus Mfg. Co., 201 Devonshire St., Boston, Mass	Ae.	May 5, 1922
Wilkinson, William T. Asst. Supt. Akkrich Bros. Co., Moosup, Conn.	Ac.	Apr. 16, 1926
Williams, Walter S. Mount Hope Finishing Co., North Dighton, Mass.	$\Lambda c.$	Apr. 30, 1909
Wilson, James A. Pres. & Treas. J. A. Gowdey Reed & Harness Co., P. O. Bo Providence, R. I.	As. x 397,	June 5, 1925
Winchester, William E. Vice Pres. Deering, Milliken & Co., Inc., 79 Leonard St., Nev City.	Ae. 7 York	Apr. 24, 1902
Windle, J. H. Selling Agt. Fales & Jenks Machine Co., Pawtucket, R. I.	As.	Oct. 5, 1920
Winsor, Robert	Ac.	Apr. 28, 1910
Winsper, Samuel F. Supt. City Manufacturing Corp., New Bedford, Mass.	Ae.	May 3, 1918
Winterbottom, John W	Ac.	Nov. 23, 1925
Witherbee, Rex G. Utica Steam & Mohawk Valley Cotton Mills, 801 State St., N. Y.	Ac. Utica,	Apr. 26, 1906
Wixon, Walter James Treas. Sterling Ring Traveler Co., 101 Lindsey St., Fall River	As. , Mass.	Nov. 10, 1922
Wolff, Charles, 3rd	P. Q.,	June 14, 1926
Wonalancet Co	Sus.	Mar. 15, 1918
Wood, John P	Ac.	Apr. 28, 1897
Wood, Theodore	Ac.	Sept. 11, 1915
Woodbury, W. Sanford	Ac.	Mar. 2, 1922
Woodman, Cyrus Attawaugan Co., P. O. Box 497, Norwich, Conn.	Ac.	Apr. 6, 1922
Woolley, Erving Y. Lee, Higginson & Co., 70 Federal St., Boston, Mass.	As.	Apr. 6, 1923
Woolley, Frank F	Ac.	Apr. 27, 1905
Worsnop, William	Ac.	Nov. 1, 1923
Wylde, Harry 979 Essex St., Lawrence, Mass.	Ac.	Apr. 13, 1911

										Ele	cted	
York Manufacturin Frederic C. McD	ng Co. Puffie, T	reas., s	Saco,	Ме.	•		•		Sus.	Aug.	1,	1923
Young, Alan V. Mgr. Hamilton C									Ac.	Sept.	11,	1915
Young, A. McLean Treas. Queen Cit		on Čo.,							S.R.	Apr.	24,	1918
Young, Charles Wi Supt. Goodyear	i lliam Cotton	Mills,	Inc.,	Good	lyear,	Conn.			Ac.	Oct.	5,	1923
Zuill, Robert W Treas. Cornell M	Iills, Fa	ll Rive	r, Ma	ass.					S.R.	July	20,	1918
Zylstra, William C Supt. Nyanza M									Ac.	June	14,	1926
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